Office of the
Principal Scientific Advisor
to the Government of India

सत्यमेव जयते

Confederation of Indian Industry

EVALUATION OF INNOVATION EXCELLENCE INDICATORS

Report on
Public Funded R&D Organisations

Volume II

Research support

CTIER CENTRE FOR TECHNOLOGY, INNOVATION AND ECONOMIC RESEARCH

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PREFACE

As has been mentioned in Volume II, the sample in this study has covered 193 institutions that are part of the 606 R&D institutions listed in the Directory of R&D Institutions 2018 published by the Department of Science and Technology (DST). While a majority of the participating laboratories are from the Indian Council of Agricultural Research (ICAR), followed by Council of Scientific and Industrial Research (CSIR), Indian Council of Medical Research (ICMR), Department of Biotechnology (DBT) and Department of Science and Technology (DST), there is also representation from central ministries/ departments other than major scientific agencies. The central ministries/departments other than major scientific agencies represented in this study are Department for Promotion of Industry and Internal Trade, Department of Pharmaceuticals, Ministry of Agriculture, Ministry of Ayush, Ministry of Chemicals and Fertilizers, Ministry of Food Processing Industries, Ministry of Heavy Industries, Ministry of Housing and Urban Affairs, Ministry of Micro, Small & Medium Enterprises, Ministry of Mines, Ministry of Power, Ministry of Road Transport, Ministry of Rural Development and the Ministry of Textiles. In addition, there was one educational institution, the Indian Institute of Technology, Roorkee that participated in the study.

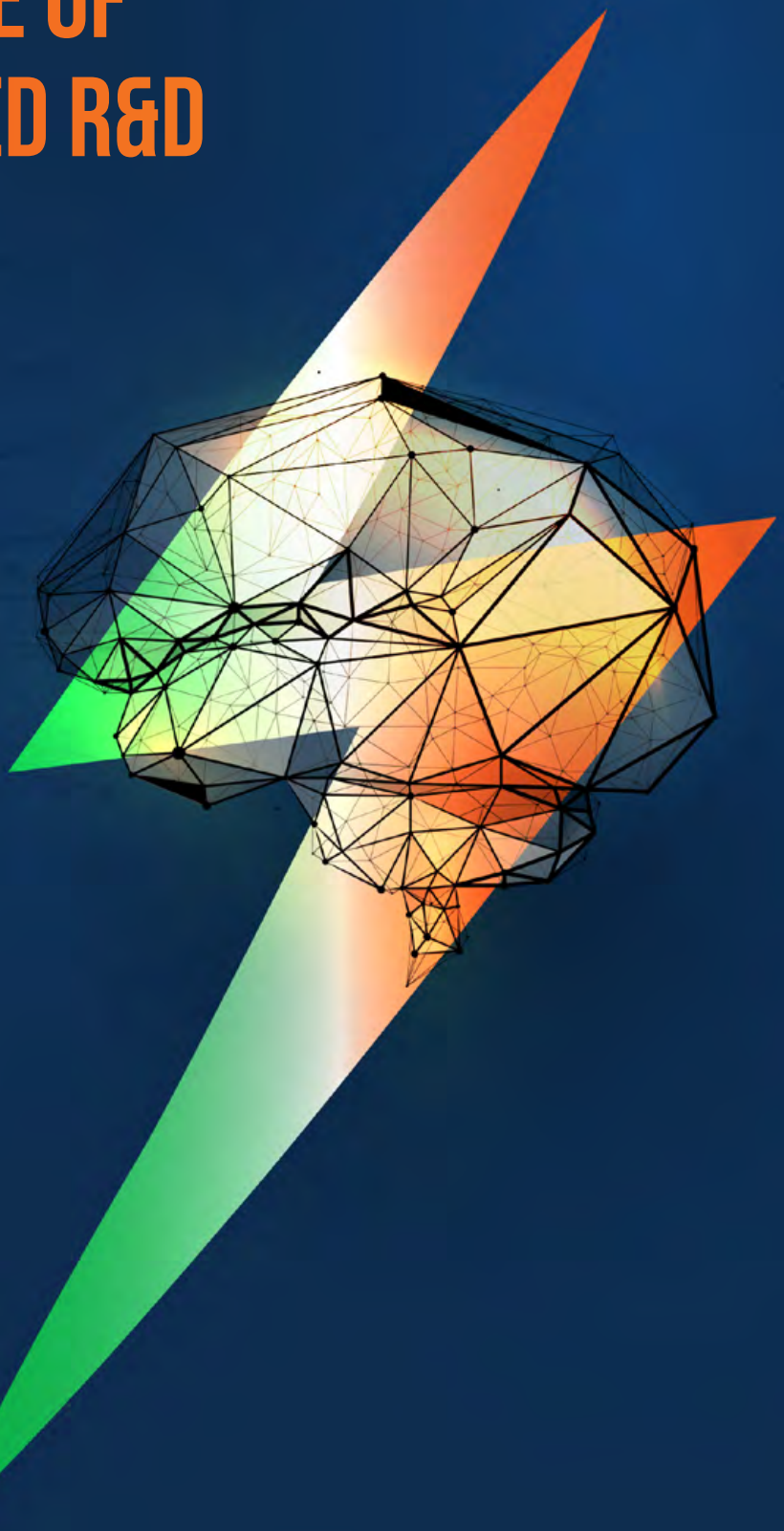
This volume presents the individual lab sheets of the 193 labs with their raw data that has been scaled by either the budget of the lab or the scientific staff at the lab. The numeric data has been adjusted to two decimal places. The sheet contains information on the lab's mandate, location, thrust areas of research and type of R&D performed. In addition, the lab sheet has three coloured dots situated at the top right corner. The dark blue dot signifies that the lab identified itself with the Basic R&D labs category, the purple dot signifies the lab identified itself with the Applied R&D labs category, and the light blue dot signifies the lab identified itself with the Services R&D labs category (● Basic, ● Applied, ● Services). Hybrid labs would have two or more dots depending on the categories the labs chose to identify with. While every effort was made to reach out to labs with clarifications where required, there were labs that did not respond to the queries asked. Where the labs did not provide any clarification, the data has been presented in its original form (scaled by budget or scientific staff where appropriate), marked in a separate colour.

In addition to the responses for each of the three years, the lab sheet also displays performance of the lab indicator wise. In order to determine the performance of each indicator, the three year average of the scaled responses of the labs was taken and assigned a colour code depending upon the quartile to which the response belonged. The responses of all 193 labs were taken into account when computing the quartiles for the indicators except those that were specific to Basic, Applied or Services Labs. For the indicators that were specific to Basic, Applied or Services labs, the set of responses in each category of lab were considered when computing the quartiles. The colour-codes for different quartiles have also been captured at the bottom of every lab sheet. It must be noted that there are instances where a large number of labs responded may have responded with a zero for a particular indicator, and hence all labs may appear in the top quartile for that indicator.

This volume also contains the Appendices. In Appendix A.1 and A.2 respectively, the Composition of the Taskforce and Members of the Working Group have been captured respectively. The survey instruments for Basic, Applied and Services R&D labs have been captured in Appendix A.3, while the Templates for Supporting Documents used in the data verification and validation exercise have been captured in Appendix A.4. In Appendix A.5, the List of Participating Labs has been provided while Appendix A.6 provides details of the Methodology for deriving sub-pillar and pillar scores. Appendix A.7 provides the feedback received from the departments/ ministries / labs on the draft report and the respective actions / responses.

SECTION 4

PERFORMANCE OF PUBLIC FUNDED R&D INSTITUTIONS



COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH GOVERNMENT OF INDIA

CSIR-Advanced Materials and Processes Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: Creating end products from more projects to substantiate industries & society's needs From supporting companies to create start-up industries; From physical institutes to world class competitive collaborative institutes; collaboration to co-create for scientific , economic and societal advancements from physical institutes to world class competitive collaborative institutes collaboration to co-create for scientific, economic and societal advancements

Location	Bhopal, Madhya Pradesh
Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials; Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare; Chemicals (including leather) and Petrochemicals	
Type of R&D performed	Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	117	119	119
Staff engaged in R&D	43	43	44
Total Budget of the institution (Rs. Crores)	37.48	51.69	40.73

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	9.3	11.63	9.09
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	6.98	9.3	4.55
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	9.3	4.65	9.09
Number of projects executed (per 100 scientific staff)	48.84	69.77	84.09
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	0	0
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	37.21	46.51	45.45
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	18.14	24.18	127.16
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.33	0.77	0.49
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	0	2.27
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	4.65	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	9.3	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	2.33	16.28	20.45
Number of trainings imparted (per 100 scientific staff)	0	2.33	0
Number of skill development programmes conducted (per 100 scientific staff)	37.21	46.51	45.45
Number of permanent scientists deputed to provide training (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	95.35	139.53	165.91
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	195.35	146.51	102.27
Percentage of publications in top 10% journals	4.88	5	8.22
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	1.07	1.16	1.96
Number of IPRs granted (per Rs.10 Cr spent)	0.27	1.55	0.74
Number of IPRs licensed out (per Rs.10 Cr spent)	1.33	0.39	0.74
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.33	0.39	0.74
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.35	0.4	0.91
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.16	0.15	0.35
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.11	0.33	0.62
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.09	0.06	0.1

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	6.98	31.63	31.82
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	36.75	36.97	36.97
Percentage of organisation's budget spent on R&D and S&T	26.75	53.36	33.65
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	48.84	47.73	47.73
Percentage of women scientists and researchers to the total scientific and research staff	11.63	15.91	18.18
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	2	3	3
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	5	5	6
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Building Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To generate, cultivate and promote Building Sciences & Technologies, applicable to both Rural & Urban population, in the service of the nation and shall continue to contribute in Scientific R&D, technology development, technology dissemination, social activities, human resources development and national planning for building research in order to sustain the building & construction industry, and to create a robust environment and ecosystem for entrepreneurship and Start-up culture; to be a world class research & knowledge base and centre of National Importance for providing innovative solutions to all aspects of building sciences & technology; to carry out research, development and innovation (RD&I) in solving problems of national challenges and render assistance to industries in planning, design, materials, construction and capacity building, including disaster mitigation in buildings to achieve safe, sustainable, resilient, smart, comfortable, functionally efficient construction with speed, productivity, environmental preservation, energy efficiency and economy.

Location	Roorkee, Uttarakhand
Areas of Research: Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials; Ecology, Environment, Earth & Ocean Sciences and Water	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	347	381	280
Staff engaged in R&D	197	232	142
Total Budget of the institution (Rs. Crores)	76.04	76.02	82.93

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	3.05	0.43	6.34
Number of projects executed (per 100 scientific staff)	77.66	80.6	144.37
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	10.15	14.22	36.62
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	67.46	97.21	102.62
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.26	0.53	1.21
Increase in the number of staff engaged in R&D (per 100 scientific staff)	29.44	15.09	-63.38
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	14.72	7.33	30.99
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	34.52	36.21	104.93
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	2.03	3.88	4.93
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	4.57	0.43	6.34
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	142.64	100.86	223.94
Percentage of publications in top 10% journals	25	11.11	14.29
Number of IPRs filed (per Rs.10 Cr spent)	0	0.53	0.6
Number of IPRs granted (per Rs.10 Cr spent)	0	0.39	0.24
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0.12
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	3.95	4.34	4.46
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.18	0.13	1.09
Number of new services/products introduced (per Rs.10 Cr spent)	0.53	0.39	1.21
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.18	1.87	4.67
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.46	0.56	0.6
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.93	1.63	4.17
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.08	0.14	0.12
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.02	0.86	1.41
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0.51	2.16	2.11

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.51	0.43	0.7
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0.65	1.58	2.22
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	56.8	60.9	50.7
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.02	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	82.7	86.6	77.5
Percentage of women scientists and researchers to the total scientific and research staff	30.5	20.7	21.1
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1.2	1.5	1.7
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	57	63	63
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Drug Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To develop new drugs for controlling diseases of national relevance, To systematically explore the Indian flora & fauna for therapeutic potential, To serve as a nodal to convert 'hits' to new drugs.

Location	Lucknow, Uttar Pradesh
Areas of Research: Agri, Nutrition & Biotechnology; Healthcare; Chemicals (including leather) and Petrochemicals	
Type of R&D performed	Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	657	681	727
Staff engaged in R&D	419	458	527
Total Budget of the institution (Rs. Crores)	179.41	154.55	164.83

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.48	0	0.57
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.19	0.66	0.19
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.95	0.22	0.19
Number of projects executed (per 100 scientific staff)	30.79	36.9	32.64
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	7.64	5.9	5.69
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	5.25	9.39	11.2
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	8.14	9.12	12.44
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	7.13	8.15	4.79
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0.24	8.52	13.09
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	14.32	12.45	13.09
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	26.49	25.98	3.23
Number of trainings imparted (per 100 scientific staff)	0.24	0.44	0.57
Number of skill development programmes conducted (per 100 scientific staff)	1.19	1.09	1.33
Number of permanent scientists deputed to provide training (per 100 scientific staff)	1.19	1.09	0.95
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	81.86	72.49	55.41
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	2.86	8.08	7.21
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	789.26	701.97	598.29
Percentage of publications in top 10% journals	6.41	6.63	8.56
Number of technology documents prepared in the last three years (per 100 scientific staff)	0.24	0.22	0.57
Number of national and international recognitions received by the lab (per 100 scientific staff)	2.15	0.87	1.71
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0.33	0.39	0.36
Number of IPRs granted (per Rs.10 Cr spent)	1.39	0.58	1.15
Number of IPRs licensed out (per Rs.10 Cr spent)	0.11	0.06	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.06	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.11	0.06	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.11	0.06	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.09	0.09	0.09
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.06	0.07	0.09
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.6	3.6	4.74
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.72	0.66	0.76
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	14.8	13.32	9.49
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.1	4.59	5.5
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	1.46	0.45	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	1.43	3.06	1.52
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	63.7	67.2	72.4
Percentage of organisation's budget spent on R&D and S&T	24.01	17.29	21.29
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0.24	1.09	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	14.7	18.7	16.3
Percentage of women scientists and researchers to the total scientific and research staff	42.9	41.2	32.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	5	5	5
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	25	25	25
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Electro-Chemical Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: CSIR-CECRI is a publicly funded organization which strives for scientific excellence and societal benefits. Our vision is to become a global R&D platform for innovation in electro-chemical science and technology, leading to inclusive development. Our scientists and engineers blend their passion for excellence in science with societal commitments to develop globally competitive and ecologically benign technologies in energy generation and storage, health diagnostics, corrosion mitigation and material conservation. Vision is to be a global R&D centre for electrochemical science and technology through sustained and dedicated efforts focusing on corrosion science and engineering, energy conversion and storage, functional materials and environment. Mission is to excel in all aspects of electro-chemical science and technology, and to develop globally competitive and eco-friendly technologies in energy, environment, health and materials conservation.

Location	Karaikudi, Tamil Nadu
Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials; Energy (conventional and nonconventional) and Energy devices; Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare; Chemicals (including leather) and Petrochemicals	
Type of R&D performed	Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	451	438	417
Staff engaged in R&D	247	244	234
Total Budget of the institution (Rs. Crores)	125.29	109	122.32

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0.41	0.43
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.4	0.41	0.43
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.4	0.41	0
Number of projects executed (per 100 scientific staff)	39.68	45.9	47.01
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0.81	0.82	0.85
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	15.79	15.16	17.95
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	34.8	28.53	58.04
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.16	0.37	0.08
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-12.96	-1.23	-4.27
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	19.84	25.82	25.64
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	62.35	66.8	65.38
Number of trainings imparted (per 100 scientific staff)	3.24	4.51	4.27
Number of skill development programmes conducted (per 100 scientific staff)	9.72	8.2	11.54
Number of permanent scientists deputed to provide training (per 100 scientific staff)	14.98	15.16	15.81
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	106.88	115.57	117.95
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	1.21	0.41	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	1203.24	1438.52	1874.36
Percentage of publications in top 10% journals	9.09	8.51	13.04
Number of technology documents prepared in the last three years (per 100 scientific staff)	0.4	0.41	1.28
Number of national and international recognitions received by the lab (per 100 scientific staff)	3.64	4.1	2.56
Number of reports leading to designs and products (per 100 scientific staff)	0	0	1.71
Number of IPRs filed (per Rs.10 Cr spent)	0.16	0.18	0.41
Number of IPRs granted (per Rs.10 Cr spent)	1.2	0.55	0.57
Number of IPRs licensed out (per Rs.10 Cr spent)	0.32	0.46	0.33
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.32	0.46	0.33
Number of new services/products introduced (per Rs.10 Cr spent)	0.16	0.09	0.08
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.05	0.07	0.06
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.01	0.01	0.01
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.01	0.01	0.01

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	3.24	2.05	0.85
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0.41	0.43
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	29.96	36.48	40.6
Number of national collaborative projects executed with industry (per 100 scientific staff)	0.4	0.82	0.85
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.43	0.41	0.85
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	42.67	45.43	47.18
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	54.7	55.7	56
Percentage of organisation's budget spent on R&D and S&T	17.08	18.7	18.14
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.62	2.46	2.56
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	70.44	71.3	72.22
Percentage of women scientists and researchers to the total scientific and research staff	25.1	23.8	30.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.5	0.75	0.8
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Electronics Engineering Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: Excellence in Scientific Research in the areas of Electronics & allied science & Engineering; Mission Mode Initiative for Innovative Electronics and allied Technologies to foster inclusive development; Technology Delivery for Strategic Requirements & Industrial Needs; Motivating disruptive Innovations for Entrepreneurships in the area of Electronics & allied Engineering ;Networking with other CSIR Labs, Industries, Research and Academic institutions for multi-disciplinary innovation; Academic & Scientific pursuit for nurturing talent and manpower development

Location	Pilani, Rajasthan
Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Civil Infrastructure & Engineering; Energy (conventional and nonconventional) and Energy devices; Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	428	450	443
Staff engaged in R&D	189	226	235
Total Budget of the institution (Rs. Crores)	117	114.93	87.19

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	3.7	0.88	0.43
Number of projects executed (per 100 scientific staff)	30.16	42.92	34.47
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	1.06	3.1	5.53
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1.97	23.75	22.82
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.94	0.87	0.46
Increase in the number of staff engaged in R&D (per 100 scientific staff)	2.65	16.37	3.83
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0.52	0.46
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0.09	0.34
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	6.88	0.88	2.98
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	80.42	76.11	47.23
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.53	0.44	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	70.37	64.6	55.32
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0.53	0.44	0.43
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	132.28	159.29	153.19
Percentage of publications in top 10% journals	4.51	6.16	3.85
Number of IPRs filed (per Rs.10 Cr spent)	0	0.17	0
Number of IPRs granted (per Rs.10 Cr spent)	0.09	0.09	0.11
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.43	0.17	0.11
Number of new services/products introduced (per Rs.10 Cr spent)	0.09	0	0.23
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.11	0.01	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.22	0.19	0.14
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.65	2.65	2.13
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	8.47	7.52	5.96

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.12	3.1	3.4
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	38.59	42.48	32.38
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	2	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	44.2	50.2	53
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	6.88	5.31	2.13
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	66.7	74.8	78.7
Percentage of women scientists and researchers to the total scientific and research staff	13.8	17.3	19.6
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	24.14	25.22	28.44
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Food Technological Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: Mandate of the institute include processing of shelf life extension of agri-resources, value addition and sustainable processes for food processing; ensure food safety and quality analysis of food products.

Location	Mysuru, Karnataka
Areas of Research: Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	386	388	336
Staff engaged in R&D	267	265	293
Total Budget of the institution (Rs. Crores)	138.35	116.94	119.75

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	7.12	2.26	3.07
Number of projects executed (per 100 scientific staff)	53.93	66.04	66.55
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	14.98	17.36	16.38
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	88.18	135.54	153.23
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.07	0.43	0.67
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.49	-0.75	9.56
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.29	0.51	1.84
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.07	0.09	0.33
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0.94	1.28	1.84
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	25.84	25.66	24.57
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	92.88	79.62	101.71
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.37	0.38	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	114.61	65.28	118.09
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	17.23	24.53	28.33
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	672.66	696.6	523.55
Percentage of publications in top 10% journals	2.94	4.62	4.34
Number of IPRs filed (per Rs.10 Cr spent)	0.58	0.17	0.5
Number of IPRs granted (per Rs.10 Cr spent)	0.94	0.26	0.75
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	6.22	7.27	5.51
Number of new services/products introduced (per Rs.10 Cr spent)	0	0.17	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.01	0.03
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.05	0.24	0.08
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.3	0.76	1.7
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.34	0.43	0.83
Number of international collaborative projects executed with industry (per 100 scientific staff)	0.75	0	0.68
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	4.87	6.79	14.68

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	1.02
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	1.12	3.77	2.73
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	8.32	5.17	10.12
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	69	68	87
Percentage of organisation's budget spent on R&D and S&T	12.29	10.75	7.4
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	48	50	49
Percentage of women scientists and researchers to the total scientific and research staff	37	39	40
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.12	0.12	0.12
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	5	5	5
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Glass and Ceramic Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: The organization is associated with basic, applied and translational research in varied domains of glass and ceramics; delivering technological solutions to stakeholders from industry and society and various government sectors; human resource development in trans-disciplinary areas and also in several technical services and outreach functions

Location Kolkata, West Bengal

Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials; Energy (conventional and nonconventional) and Energy devices; Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare

Type of R&D performed Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	412	395	375
Staff engaged in R&D	171	170	167
Total Budget of the institution (Rs. Crores)	120.24	122.44	115.03

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.17	0	0
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.75	1.18	1.2
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.17	1.18	0
Number of projects executed (per 100 scientific staff)	60.82	69.41	59.28
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	2.92	2.94	2.4
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0	3.53	1.2
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	47.57	2.45	0.87
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.83	2.12	1.74
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-4.09	-0.59	-1.8
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	7.02	13.53	4.19
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	5.85	5.88	0
Number of trainings imparted (per 100 scientific staff)	3.51	5.88	2.99
Number of skill development programmes conducted (per 100 scientific staff)	3.51	5.88	2.99
Number of permanent scientists deputed to provide training (per 100 scientific staff)	3.51	5.88	7.19
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	113.45	118.24	116.17
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	940.94	1012.94	1114.37
Percentage of publications in top 10% journals	6.7	7.46	5.67
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	5.26	5.88	4.79
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0.08	0.41	0.26
Number of IPRs granted (per Rs.10 Cr spent)	1.58	1.06	0.87
Number of IPRs licensed out (per Rs.10 Cr spent)	0.25	0.08	0.09
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.25	0.16	0.09
Number of new services/products introduced (per Rs.10 Cr spent)	0.25	0.16	0.35
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.08	0.01
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.08	0.15	0.05
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.3	0.47	1.79
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.21	0.32	0.21

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.58	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	18.13	21.77	29.34
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.17	2.94	3.59
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.58	0.59	0.6
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	30.77	43.88	38.72
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	41.5	43	44.5
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	58.5	60	57.5
Percentage of women scientists and researchers to the total scientific and research staff	15.8	15.3	15
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.07	0.04	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	8	10	10
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Institute of Medicinal and Aromatic Plants

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To engage in multi-disciplinary high-quality research in agricultural, biological and chemical sciences and extending technologies and services to the growers and entrepreneurs of Medicinal and Aromatic Plants (MAPs) with the following mandates- Genetic improvement, cultivation, production and chemical processing of economically important MAPs; Characterization and conservation of genetic resources; Production of planting material of the improved cultivars; Bioprospecting plants and their constituents for various biological activities using different in vitro and in vivo techniques; Metabolic pathway studies for identifying and modulating yield determinants; Herbal products and formulations for a better life; Knowledge management for the enhancement and dissemination of R&D; Human resource development for R&D in the basic and applied areas of MAPs.

Location	Lucknow, Uttar Pradesh
Areas of Research: Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	459	498	511
Staff engaged in R&D	288	342	351
Total Budget of the institution (Rs. Crores)	86.69	79.03	88.05

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.69	0.88	0.57
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.43	2.05	1.71
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.43	2.05	1.71
Number of projects executed (per 100 scientific staff)	14.24	20.76	25.07
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	2.78	2.34	2.28
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	727.08	786.84	1446.44
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1427.32	1939.45	1581.48
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.12	0.25	0.11
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-21.88	15.79	2.56
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.92	0.63	0.34
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.69	0.51	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	4.84	3.8	1.7
Number of consultancies undertaken for startups (per 100 scientific staff)	0.35	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	5.21	7.6	10.83
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	13.19	27.49	8.26
Number of trainings imparted (per 100 scientific staff)	28.82	30.41	27.07
Number of skill development programmes conducted (per 100 scientific staff)	8.68	7.31	9.12
Number of permanent scientists deputed to provide training (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.35	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	35.07	26.9	29.34
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0.35	0	0.85
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	375.35	329.53	382.91
Percentage of publications in top 10% journals	3.96	6.52	5.83
Number of technology documents prepared in the last three years (per 100 scientific staff)	1.04	1.17	1.71
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0.29	0
Number of reports leading to designs and products (per 100 scientific staff)	1.04	1.17	1.71
Number of IPRs filed (per Rs.10 Cr spent)	0.69	0.25	0.11
Number of IPRs granted (per Rs.10 Cr spent)	0.23	0	0.57
Number of IPRs licensed out (per Rs.10 Cr spent)	0.46	0	0.23
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	1.96	2.91	2.16
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.5	1.01	1.14
Number of new services/products introduced (per Rs.10 Cr spent)	1.96	2.66	1.36
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.12	0	0.04
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.21	0.08	0.07
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.75	1.16	0.37
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.03	0.04	0.01

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.35	0.29	0.28
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	5.56	5.26	5.98
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.69	2.05	2.85
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	11.6	9.99	9.07
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	62.7	68.7	68.7
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0.57
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	84	87.4	86.6
Percentage of women scientists and researchers to the total scientific and research staff	42.7	45.3	45.3
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10	3	1
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Institute of Mining and Fuel Research

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To innovate safe and economically viable technologies, to make the best use of available knowledge base and to transfer know-how in line with National Missions and the Dehradun Declaration with focus on - Maximum recovery of fossil fuels, ores and minerals; Clean coal initiatives with optimum and effective utilization of low grade coal along with waste management; know-how and R&D service support to mining industry and coal industry from Mine to Markets; scientific support to strategic and other important sectors like atomic energy, defence, railways, etc.; Mass mining of deep-seated coal and mineral deposits; Exploitation of difficult coal seams; Environment protection including monitoring and mitigation of greenhouse gas emission; Facilitation of mutually beneficial interaction between industry and society for techno-economic and societal growth; Strengthening linkages with academic and research centres of excellence, industry and other relevant institutes; and Generation and dissemination of database and know-how as and when required.

Location Dhanbad, Jharkhand

Areas of Research: Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials; Chemicals (including leather) and Petrochemicals; Ecology, Environment, Earth & Ocean Sciences and Water; Energy (conventional and nonconventional) and Energy devices; Agri, Nutrition & Biotechnology

Type of R&D performed Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	953	837	911
Staff engaged in R&D	806	684	718
Total Budget of the institution (Rs. Crores)	129.4	155.37	171.27

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.5	0.58	0.84
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.5	0.58	0.84
Number of projects executed (per 100 scientific staff)	57.07	74.12	77.72
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0.37	0.73	0.84
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0.62	1.02	1.11
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	7.26	10.75	7.59
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.31	0.26	0.18
Increase in the number of staff engaged in R&D (per 100 scientific staff)	28.41	-17.84	4.74
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0.87	0.44	0.42
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	30.4	53.8	43.45
Number of trainings imparted (per 100 scientific staff)	0.25	0.88	0.56
Number of skill development programmes conducted (per 100 scientific staff)	0.37	0.44	0.56
Number of permanent scientists deputed to provide training (per 100 scientific staff)	0.62	0.88	0.84
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.15	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	6.58	11.4	9.75
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	2.23	1.61	2.23
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	59.43	75.15	81.48
Percentage of publications in top 10% journals	7.55	10.26	4.29
Number of technology documents prepared in the last three years (per 100 scientific staff)	0.87	2.63	4.74
Number of national and international recognitions received by the lab (per 100 scientific staff)	0.25	0.15	0.7
Number of reports leading to designs and products (per 100 scientific staff)	0.12	0.15	0.14
Number of IPRs filed (per Rs.10 Cr spent)	2.32	0.9	0.7
Number of IPRs granted (per Rs.10 Cr spent)	2.01	0.77	0.58
Number of IPRs licensed out (per Rs.10 Cr spent)	0.08	0.06	0.12
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.15	0.77	0.47
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.08	0.06	0.12
Number of new services/products introduced (per Rs.10 Cr spent)	0.31	0.26	0.23
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	2.55	0.81	0.89
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.83	0.7	0.87
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	27.95	32.68	56.63
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	2.83	1.8	2.62

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0.15	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0.14
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	1.12	2.92	1.11
Number of national collaborative projects executed with industry (per 100 scientific staff)	0.62	0.58	0.84
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.12	0.29	0.28
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	4.06	8.35	6.31
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0.5	0.15	0.14
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	85	82	79
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0.5	0.44	0.42
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	84	82	84
Percentage of women scientists and researchers to the total scientific and research staff	16	19	17
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1	1	2
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10.2	12.4	15
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Leather Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To serve as the national apex body for leather, leather products, leather chemicals and allied areas; To handhold with industry and provide them appropriate solutions fulfilling their technological, testing, certification and other technical needs; To excel in basic and applied research in frontier disciplines of science, engineering and technology for/in leather, leather products, leather chemicals and allied areas and become a leader in translational research and technology licensing; To develop and implement actionable programs in alignment with the national agenda / programs ; To create intellectual and skilled manpower for the industry and contribute to societal growth; To become a global technology service provider through industry development, benchmarking and organizational capacity building programs; To become self-sustainable through the above activities

Location Chennai, Tamil Nadu

Areas of Research: Chemicals (including leather) and Petrochemicals; Ecology, Environment, Earth & Ocean Sciences and Water; Energy (conventional and nonconventional) and Energy devices; Healthcare

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	369	342	323
Staff engaged in R&D	142	131	125
Total Budget of the institution (Rs. Crores)	121.92	112.22	111.01

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.41	2.29	2.4
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.82	1.53	5.6
Number of projects executed (per 100 scientific staff)	90.14	105.34	96
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	36.62	32.82	32
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	215.71	234.27	125.12
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.15	1.51	1.62
Increase in the number of staff engaged in R&D (per 100 scientific staff)	17.61	-8.4	-4.8
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	2.11	0.76	0.8
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	70.42	77.1	85.6
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	305.63	287.79	268.8
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.7	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.76	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	99.3	99.24	125.6
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	7.75	16.79	8
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	1402.11	1283.97	1338.4
Percentage of publications in top 10% journals	7.09	5.38	7.01
Number of IPRs filed (per Rs.10 Cr spent)	1.8	2.23	1.26
Number of IPRs granted (per Rs.10 Cr spent)	1.15	0.71	1.08
Number of IPRs licensed out (per Rs.10 Cr spent)	0.33	0.18	0.27
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	5.5	15.06	3.78
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.33	0.18	0.36
Number of new services/products introduced (per Rs.10 Cr spent)	1.31	4.37	0.54
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.5	0.92	0.89
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.69	0.51	0.4
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.44	0.39	0.39
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.01	0.01	0.01
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.41	1.53	2.4
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	17.61	18.32	26.4
Number of national collaborative projects executed with industry (per 100 scientific staff)	6.34	8.4	4

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.7	2.29	1.6
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	43.44	40.9	55.9
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	2.82	3.05	2.4
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	38.5	38.3	38.7
Percentage of organisation's budget spent on R&D and S&T	61.71	61.54	62.45
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	8.45	9.92	9.6
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	16.2	18.3	20.8
Percentage of women scientists and researchers to the total scientific and research staff	18.3	21.4	23.2
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.02	0.02	0.02
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	67	22	15
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Mechanical Engineering Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: Carrying out research and development in relevant areas of national priority as evolved by bodies concerned with the overall planning for science and technology in the country; Undertaking R&D sponsored by public/ private sector industries in consonance with national priorities; Undertaking R&D directed towards continuous improvement of indigenous technology; Undertaking R&D for evolving new technologies relevant to the country's social, economic and industrial needs in keeping with national objective of self-reliance; Undertaking R&D on appropriate and alternate technologies, with emphasis on the use of local resources; Ensuring continuous flow of finance and resources through extension of R&D services for fostering basic research at the institutional level; Undertaking activities focused towards fast translation of laboratory level technologies to commercial entities through proper nurturing and marketing; Undertaking on a routine basis efforts for identification of R&D requirements of industries for rapid intervention through the extension of R&D services.

Location	Durgapur, West Bengal
Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials; Ecology, Environment, Earth & Ocean Sciences and Water; Energy (conventional and nonconventional) and Energy devices; Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	368	352	351
Staff engaged in R&D	204	187	165
Total Budget of the institution (Rs. Crores)	117.13	114.72	116.4

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	10.78	3.74	9.7
Number of projects executed (per 100 scientific staff)	59.31	59.89	68.48
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	2.45	1.6	3.03
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	38.25	48.03	73.71
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.02	0.26	0.52
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.9	-9.09	-13.33
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	2.94	1.6	5.45
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	25	42.78	71.52
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0.61
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	20.59	35.83	43.64
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	3.43	1.6	4.85
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	584.8	685.56	695.76
Percentage of publications in top 10% journals	9.52	10.45	20.83
Number of IPRs filed (per Rs.10 Cr spent)	3.33	3.4	3.35
Number of IPRs granted (per Rs.10 Cr spent)	1.62	1.74	2.15
Number of IPRs licensed out (per Rs.10 Cr spent)	1.45	0.35	0.77
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.88	0.52	0.95
Number of new services/products introduced (per Rs.10 Cr spent)	1.11	0.78	1.2
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.96	0.91	1.21
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.18	0.12	0.33
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.96	0.91	1.21
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.09	0.08	0.1
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0.53	0.61
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.45	3.74	4.24
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	2.45	5.88	11.52

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0.49	0.53	0.61
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	4.9	8.56	13.33
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	13.56	22.24	28.59
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	6.37	17.11	20
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	55.4	53.1	47
Percentage of organisation's budget spent on R&D and S&T	25.2	28.97	28.98
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0.49	0.53	0.61
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	67.2	63.1	53.3
Percentage of women scientists and researchers to the total scientific and research staff	11.3	11.2	10.9
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.01	0.01	0.01
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	3.41	5.45	5.12
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Road Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To develop specifications and manuals for construction of low cost roads; To carry out applied research for investigation, construction and maintenance of different type of roads and runway; To develop appropriate tools, machinery, equipment and instruments for adapting technologies related to highway engineering and relevant for indigenous use; To carry out R&D activities in all aspects of roads, road traffic and transportation engineering; To render technical advice and consultancy services in roads and related fields to avoid import of foreign expertise; To train engineers through refresher courses, workshops and training programmes for application of indigenously developed technologies; To create and establish all the needed infrastructure in the various facets of highway and transportation engineering; To collaborate on R&D studies concerning roads, road transportation and related practices; Publication of scientific and technical findings in journals, symposia, conferences, etc.; Generation of intellectual property and its commercialization through technology transfer.

Location New Delhi

Areas of Research: Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials

Type of R&D performed Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	268	295	309
Staff engaged in R&D	89	105	94
Total Budget of the institution (Rs. Crores)	74.72	71.91	73.11

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	8.99	3.81	11.7
Number of projects executed (per 100 scientific staff)	351.69	338.1	357.45
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	34.83	30.48	30.85
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	3.37	12.38	7.45
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	89.4	120.71	202.44
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.8	0.42	0.27
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-16.85	15.24	-11.7
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of trainings imparted (per 100 scientific staff)	26.97	15.24	39.36
Number of skill development programmes conducted (per 100 scientific staff)	3.37	3.81	6.38
Number of permanent scientists deputed to provide training (per 100 scientific staff)	65.17	57.14	67.02
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	1.06
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	31.46	31.43	28.72
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	119.1	111.43	92.55
Number of technology documents prepared in the last three years (per 100 scientific staff)	360.67	320	353.19
Number of national and international recognitions received by the lab (per 100 scientific staff)	7.87	8.57	2.13
Number of reports leading to designs and products (per 100 scientific staff)	40.45	48.57	97.87
Number of IPRs filed (per Rs.10 Cr spent)	1.07	0.14	0.55
Number of IPRs granted (per Rs.10 Cr spent)	0.8	0	0.14
Number of IPRs licensed out (per Rs.10 Cr spent)	0.13	0.14	0.41
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	1.34	3.62	3.83
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.13	0.14	0.55
Number of new services/products introduced (per Rs.10 Cr spent)	5.09	7.09	6.02
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	2.24	3.71	3.48
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.17	1.33	1.19
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.16	1.32	0.78
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.25	0.33	0.14
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.12	0.95	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	1.12	0	1.06

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	3.37	12.38	12.77
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	1.12	4.76	4.26
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	26.97	23.81	22.34
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	33	36	30
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	7.87	9.52	11.7
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	24	17	18
Percentage of women scientists and researchers to the total scientific and research staff	20	18	16
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1	1	1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	5	5	5
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Salt And Marine Chemicals Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: CSIR-CSMCRI, Bhavnagar (established in the year 1954) had the primary mandate of ensuring Nation's self-reliance in salt production. Over the years, sensing the Nation's need and prioritizing the field experiences of working towards salt, CSMCRI branched its activities in domains like salt and marine chemicals, water purification & desalination, seaweed biology, saline land amelioration, renewable energy, green chemistry and catalysis, sensing & diagnostics, waste-to-wealth etc. CSMCRI has carved a niche space of relevance amongst the industries working with them on diverse problems and transforming patents into commercial, revenue generating and problem solving successful, vibrant R&D collaborations and technology transfers. Team CSMCRI has evolved over the years and moved from achieving individual brilliance towards collective efforts aiming for â€œtechnologies that transform lives.

Location	Bhavnagar, Gujrat
Areas of Research: Mining, Minerals, Metals and Materials , Chemicals (including leather) and Petrochemicals; Ecology, Environment, Earth & Ocean Sciences and Water; Energy (conventional and nonconventional) and Energy devices; Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	283	287	337
Staff engaged in R&D	151	164	211
Total Budget of the institution (Rs. Crores)	74.33	63.22	80.78

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.99	2.44	2.37
Number of projects executed (per 100 scientific staff)	52.32	53.05	39.81
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	19.87	15.85	7.58
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0.81	101.7	159.56
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.4	0.63	0.37
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-46.36	7.93	22.27
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	39.74	36.59	25.59
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	48.34	52.44	52.61
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.61	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	137.09	136.59	92.89
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	3.97	4.27	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	1575.5	1526.83	1243.6
Percentage of publications in top 10% journals	13.04	10.71	12.76
Number of IPRs filed (per Rs.10 Cr spent)	3.9	3.16	1.98
Number of IPRs granted (per Rs.10 Cr spent)	5.11	4.43	3.96
Number of IPRs licensed out (per Rs.10 Cr spent)	0.67	0.32	0.12
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0.5
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.81	0.47	0.12
Number of new services/products introduced (per Rs.10 Cr spent)	1.35	1.58	0.25
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.23	0.21	0.25
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.2	0.37	0.17
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.9	1.04	0.84
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.66	0.61	0.95
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	25.17	21.35	18.01

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.99	1.22	2.37
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	5.96	1.83	1.9
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	41.19	45.53	14.48
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0.47
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	53.4	57.1	62.6
Percentage of organisation's budget spent on R&D and S&T	20.39	21.22	35.42
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0.66	1.22	2.84
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	65.6	68.9	74.9
Percentage of women scientists and researchers to the total scientific and research staff	17.9	22	25.1
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	0.5	0.5	0.5
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10.52	11.25	3.44
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Central Scientific Instruments Organisation

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To carry out research in niche areas of measurement sciences and innovative instrumentation technology for strategic and societal applications; To provide quality services and human resource development in advanced instrumentation; To emerge as a global player in the field of instrumentation sciences.

Location	Chandigarh
Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials; Energy (conventional and nonconventional) and Energy devices; Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	343	455	355
Staff engaged in R&D	110	236	128
Total Budget of the institution (Rs. Crores)	105.29	106.76	108.38

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	3.64	1.27	24.22
Number of projects executed (per 100 scientific staff)	63.64	48.31	98.44
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	3.64	6.36	40.63
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	5.6	5.25	6.74
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.95	0.84	1.48
Increase in the number of staff engaged in R&D (per 100 scientific staff)	15.45	53.39	-84.38
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	10.91	8.05	15.63
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	293.64	149.58	257.03
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	120	66.1	119.53
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	555.45	529.24	1353.13
Percentage of publications in top 10% journals	17.42	8.97	9.8
Number of IPRs filed (per Rs.10 Cr spent)	1.04	0.84	0.74
Number of IPRs granted (per Rs.10 Cr spent)	0.09	0.09	0.46
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.47	0.47	1.01
Number of new services/products introduced (per Rs.10 Cr spent)	0.47	0.28	0.28
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.22	0.24	0.12
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.05	0.12	0.06
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.96	1.33	1.59
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.01	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.73	1.69	7.03
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	30	12.71	28.9

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	8.18	4.24	8.59
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.64	9.75	17.19
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	40.75	31.97	67.05
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0.91	0.42	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	32.1	51.9	36.1
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.64	0.85	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	59.1	80.9	61.7
Percentage of women scientists and researchers to the total scientific and research staff	22.7	26.7	27.3
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	3.13	7.37
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Centre for Cellular and Molecular Biology

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To conduct high quality basic research and training in frontier areas of modern biology, and promote centralized national facilities for new and modern techniques in the inter-disciplinary areas of biology and to seek potential applications of this work; to train people in the advanced areas of biology to serve the needs of development in these areas, with special provision for short-term training of staff from other institutions in techniques for which adequate facilities may not exist elsewhere; To provide centralised facilities in the country for new and modern techniques in the inter-disciplinary areas of biology, and to ensure that these facilities are so organized, maintained and administered that they can be put to maximal use by research workers from other laboratories and institutions in the country.

Location	Hyderabad, Telangana
Areas of Research: Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	570	561	604
Staff engaged in R&D	341	351	411
Total Budget of the institution (Rs. Crores)	134.53	127.31	142.53

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.59	1.42	0.97
Number of projects executed (per 100 scientific staff)	21.7	32.48	26.76
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	1451.61	4273.5	4136.25
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	7.73	13.51	10.31
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.59	0.55	0.28
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-23.46	2.85	14.6
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.59	0.94	1.12
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0.16	0.21
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0.52	1.26	1.75
Number of consultancies undertaken for startups (per 100 scientific staff)	0	12.82	8.27
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	4.11	5.13	2.92
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	55.72	58.69	45.5
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.57	0.73
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.29	0.28	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	48.09	44.16	31.14
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0.29	0	0.24
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	715.25	683.19	547.2
Percentage of publications in top 10% journals	3.05	8.39	5.47
Number of IPRs filed (per Rs.10 Cr spent)	0	0.79	0.35
Number of IPRs granted (per Rs.10 Cr spent)	0.3	0.24	0.49
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0.07
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.07	0	0.07
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0.07
Number of new services/products introduced (per Rs.10 Cr spent)	0.15	0.31	0.07
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.05	0.03
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.11	0.13	0.15
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.01	1.32	1.19
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0.01
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.35	3.42	2.19
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	13.78	12.54	10.71
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0.24

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.81	7.41	5.6
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	21.31	23.4	14.7
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0.28	0.24
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	60	63	68
Percentage of organisation's budget spent on R&D and S&T	23.34	28.18	33.8
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	21.41	16.52	12.17
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	64	66	71
Percentage of women scientists and researchers to the total scientific and research staff	36	41	44
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.19	0.53	0.29
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	15	14.4	18.6
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Indian Institute of Chemical Technology

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To serve society by creating an outstanding knowledge base in chemistry and chemical technology, to strive towards knowledge intensive translational research in chemistry; to partner with industry to develop cost efficient processes / technologies and materials, to provide value added services, by way of Analytical and Consultancy services, support entrepreneurship in niche and upcoming areas; to generate revenues from above; utilize public funds for enhancing the expertise in niche areas; Produce highly skilled manpower (R&D, production and QC) for chemical, Pharma and allied industries

Location	Hyderabad, Telangana
Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials; Chemicals (including leather) and Petrochemicals; Ecology, Environment, Earth & Ocean Sciences and Water; Energy (conventional and nonconventional) and Energy devices; Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	1641	1281	1258
Staff engaged in R&D	1239	894	918
Total Budget of the institution (Rs. Crores)	236.59	223.44	234.6

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	1.09
Number of projects executed (per 100 scientific staff)	7.34	10.74	10.02
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	4.84	13.87	14.05
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	12.85	6.4	11.59
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.25	1.39	1.11
Increase in the number of staff engaged in R&D (per 100 scientific staff)	23.16	-38.59	2.61
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.25	0.13	0.13
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.04	0.13	0.04
Number of new hires by the current incubatees (per Rs.10 Cr spent)	2.2	5.37	3.96
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	4.52	8.39	7.63
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	19.29	44.85	52.29
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	54.32	67.79	63.51
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0.56	0.22	0.33
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	696.29	938.59	824.29
Percentage of publications in top 10% journals	6.24	7.26	5.83
Number of IPRs filed (per Rs.10 Cr spent)	0.89	1.25	0.55
Number of IPRs granted (per Rs.10 Cr spent)	1.78	2.33	1.53
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.13	0.04
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0.13	0.04
Number of new services/products introduced (per Rs.10 Cr spent)	0.34	0.72	0.38
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.48	0.63	1
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.44	0.62	1.26
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.05	1.21	1.12
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.38	0.61	0.98
Number of international collaborative projects executed with industry (per 100 scientific staff)	0.08	0.11	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.24	0.45	0.33
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	13.16	15.77	15.9

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	3.71	4.03	3.92
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.08	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	25.59	32.12	35.41
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	1.61	2.35	2.18
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	75.5	69.8	73
Percentage of organisation's budget spent on R&D and S&T	46.41	54.29	51.56
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	No	No	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0.81	2.01	1.96
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	89.3	85.7	85.3
Percentage of women scientists and researchers to the total scientific and research staff	23.7	29.5	33.9
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	12	14	11
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	92	90	95
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Indian Institute of Integrative Medicine

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To discover new drugs and therapeutic approaches from Natural Products, both of plant and microbial origin, enabled by biotechnology, to develop technologies, drugs and products of high value for the national and international markets; to become an International center of excellence for natural products chemistry, chemical biology, pharmacology and bi otechnology to discover new chemical entities (NCEs) as drugs for unmet medical needs and provide scientific rationale and validity to various Indian systems of medicine.

Location Jammu, Jammu and Kashmir

Areas of Research: Agri, Nutrition & Biotechnology; Healthcare

Type of R&D performed Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	447	493	528
Staff engaged in R&D	260	315	402
Total Budget of the institution (Rs. Crores)	124.58	119.24	103.81

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.15	0.63	3.73
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0.95	0
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0.32	1.74
Number of projects executed (per 100 scientific staff)	19.62	19.37	14.18
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0.38	0.32	0.5
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0.77	0.95	1
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	17.26	10.99	28.03
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0.08	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	18.85	17.46	21.64
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0.5	0.39
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0.42	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0.5	0.87
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0.32	0.75
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	8.46	6.98	6.47
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	74.62	25.4	15.92
Number of trainings imparted (per 100 scientific staff)	82.69	41.59	72.39
Number of skill development programmes conducted (per 100 scientific staff)	0	0	1.24
Number of permanent scientists deputed to provide training (per 100 scientific staff)	34.62	26.67	17.66
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.38	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	60.77	39.37	34.08
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0.32	1
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	627.31	531.75	390.8
Percentage of publications in top 10% journals	6.96	7.26	7.3
Number of technology documents prepared in the last three years (per 100 scientific staff)	15.77	16.19	19.9
Number of national and international recognitions received by the lab (per 100 scientific staff)	0.77	0.63	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0.32	1
Number of IPRs filed (per Rs.10 Cr spent)	2.33	2.77	1.25
Number of IPRs granted (per Rs.10 Cr spent)	1.53	3.1	1.44
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.08	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.08	0.08	0.1
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0.08	0.19
Number of new services/products introduced (per Rs.10 Cr spent)	0.24	0.5	0.48
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.05	0.01
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.05	0.05	0.02
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.48	0.26	0.58
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.04	0.03	0.08

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	13.08	6.03	8.21
Number of national collaborative projects executed with industry (per 100 scientific staff)	0.77	1.27	0.5
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	15.58	21.6	14.94
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	58.2	63.9	76.1
Percentage of organisation's budget spent on R&D and S&T	92	95	94
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.54	2.86	2.99
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	75	81	82.6
Percentage of women scientists and researchers to the total scientific and research staff	24.6	26.3	27.1
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1	1	1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	80	85	90
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Indian Institute of Petroleum

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To provide competitive and sustainable technologies and products to meet the requirements of the ever growing energy sector; Exploit renewable resources and waste materials to develop low cost pathways for making fuels and chemicals available even from non-fossil sources; Capacity and capability to develop new energy areas such as bio, hydrogen and solar energy and their innovative combination; Continue to remain an excellent center for learning in the energy sector to meet HRD requirements both nationally and internationally

Location	Dehradhun, Uttarakhand
Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Mining, Minerals, Metals and Materials; Energy (conventional and nonconventional) and Energy devices; Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology	
Type of R&D performed	Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	465	490	468
Staff engaged in R&D	175	212	191
Total Budget of the institution (Rs. Crores)	118.68	101.16	102.36

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	4.57	4.72	14.14
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.14	0.47	2.09
Number of projects executed (per 100 scientific staff)	46.29	36.79	34.03
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	13.14	16.51	11.52
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	24.94	25.01	29.21
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.25	0.2	0.29
Increase in the number of staff engaged in R&D (per 100 scientific staff)	12	17.45	-10.99
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	4	1.42	2.09
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	48.57	42.45	40.84
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	45.71	37.26	46.07
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	2.86	2.36	3.66
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	688.57	592.45	691.1
Percentage of publications in top 10% journals	11.25	10.13	13.64
Number of IPRs filed (per Rs.10 Cr spent)	1.18	0.3	0.88
Number of IPRs granted (per Rs.10 Cr spent)	2.61	1.88	2.05
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.2	0.2
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.34	0	0.29
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0.2	0.2
Number of new services/products introduced (per Rs.10 Cr spent)	0.42	0.99	0.98
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.69	0.79	0.94
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.93	1.42	0.87
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.5	0.7	0.85
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	1.65	0.81	0.72
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.71	2.36	2.62
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	9.14	11.79	14.14
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.57	0	0.52
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	7.97	8.4	17.28
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0.57	0	0.52
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	37.63	43.26	40.81
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	No	No	No
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	6.29	2.36	3.66
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	82.28	84.4	79.58
Percentage of women scientists and researchers to the total scientific and research staff	21.7	25.94	26.7
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	0.08	0.05	0.11
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	28.5	12.7	26.5
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Institute of Genomics and Integrative Biology

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To provide commercially viable technologies in the sphere of healthcare drawing from concepts in basic biological research. From transcriptomics, to epigenetics, metagenomics, and single cell genomics, IGIB has focused its energy on keeping abreast with genomic and other -omic technologies as they become available, and rapidly adopt them to ask questions relevant to the Indian healthcare sector. From sequencing the first complete Indian genome, cataloguing the first thousand whole genomes across diverse Indian communities, creating pathbreaking programs in genetic diseases, to bringing data-science to bear upon multi-omic datasets, IGIB has continually spearheaded efforts to bring precision health to the diverse people of India.

Location	Lucknow, Uttar Pradesh
Areas of Research: Chemicals (including leather) and Petrochemicals; Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	426	436	501
Staff engaged in R&D	372	380	447
Total Budget of the institution (Rs. Crores)	69.24	60.64	70.89

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.54	0.26	0.45
Number of projects executed (per 100 scientific staff)	21.24	27.89	25.95
Beneficiaries of lab's programmes	Individuals	Individuals	Individuals
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	2.69	2.63	2.24
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	9.1	16.49	9.45
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0.14
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-32.53	2.11	14.99
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	6.45	8.68	4.25
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	42.74	56.05	51.68
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0.67
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	48.92	47.63	33.78
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	809.41	1314.21	1478.75
Percentage of publications in top 10% journals	12.09	8.84	7.28
Number of IPRs filed (per Rs.10 Cr spent)	0.14	0	0.28
Number of IPRs granted (per Rs.10 Cr spent)	1.59	0.49	0.14
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0.14
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.29	0.33	0.28
Number of new services/products introduced (per Rs.10 Cr spent)	0.29	0.82	0.42
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.72	1.63	2.68
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.21	0.09	0.17
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.43	2.66	3.36
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.16	0	0.09
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.27	0.26	0.45
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	15.05	11.58	11.18
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.08	0.79	0.45

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	15.86	19.74	18.79
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	25.78	25.38	17.28
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	87.32	87.16	89.22
Percentage of organisation's budget spent on R&D and S&T	61.39	61.5	75
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.15	1.58	0.89
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	89.78	90.26	91.05
Percentage of women scientists and researchers to the total scientific and research staff	54.57	57.11	57.27
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10	10	10
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Institute of Himalayan Bioresource Technology

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: The institute has a focused research mandate on bioresources for catalyzing bioeconomy in a sustainable manner; promoting industrial growth through technological interventions; regular training programs and advisory services for farmers in medicinal & aromatic crops, floriculture, tea and small entrepreneurs involved in food, herbals, composting, and value addition of agri-produce sector. Institute has been recognized as one of the Incubation Centers by MSME GOI and in the area of Affordable Health Care by DSIR.

Location	Palampur, Himachal Pradesh
Areas of Research: Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	307	372	342
Staff engaged in R&D	198	265	241
Total Budget of the institution (Rs. Crores)	55.2	65.42	92.6

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	3.03	6.79	8.71
Number of projects executed (per 100 scientific staff)	47.47	48.68	56.02
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	1690.4	793.21	861
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	37.68	68.17	29.59
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0.15	0.11
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-51.52	25.28	-9.96
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	1.63	1.07	1.51
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	1.07	0.65
Number of new hires by the current incubatees (per Rs.10 Cr spent)	1.81	2.14	7.99
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0.83
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	9.6	4.91	5.81
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	Yes
Number of interns trained (per 100 scientific staff)	76.77	62.26	84.65
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	50	31.7	43.57
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	2.49
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	360.1	280.75	334.44
Percentage of publications in top 10% journals	6.06	2.38	11.43
Number of IPRs filed (per Rs.10 Cr spent)	0.36	1.83	0.65
Number of IPRs granted (per Rs.10 Cr spent)	1.45	0.92	0.86
Number of IPRs licensed out (per Rs.10 Cr spent)	0.72	0.15	1.08
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.54	0.15	0.32
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.72	0.61	1.08
Number of new services/products introduced (per Rs.10 Cr spent)	3.44	3.06	1.94
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.12	0.76	0.6
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.06	0.04	0.04
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.09	0.7	0.56
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.01	0	0.01
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.51	0.38	0.41
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	5.05	1.89	4.57
Number of national collaborative projects executed with industry (per 100 scientific staff)	7.58	9.43	13.69

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.53	5.66	6.22
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	25.52	14.48	13.2
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	1	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	64.49	71.23	70.46
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.03	1.13	2.9
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	86.4	90.6	88
Percentage of women scientists and researchers to the total scientific and research staff	30.3	57	34.4
Are the facilities at the lab differently-abled friendly?	No	No	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.05	0.05	0.07
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	97	98	96
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Institute of Microbial Technology

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To provide integrated research, development, and design base for microbial technology

Location	Chandigarh
Areas of Research: Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare; Chemicals (including leather) and Petrochemicals	
Type of R&D performed	Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	290	278	296
Staff engaged in R&D	191	183	196
Total Budget of the institution (Rs. Crores)	62.17	63.3	61.3

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5.76	13.11	15.82
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	10.99	12.57	11.73
Number of projects executed (per 100 scientific staff)	52.88	49.18	52.04
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	4.71	11.48	20.41
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	8.85	23.85	30.99
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.96	1.26	0.98
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.71	-4.37	6.63
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	17.8	20.77	13.27
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	35.52	29.08
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0.51
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	58.12	61.75	47.96
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	886.91	938.8	959.18
Percentage of publications in top 10% journals	6.31	3.54	4.26
Number of IPRs filed (per Rs.10 Cr spent)	3.06	4.74	3.26
Number of IPRs granted (per Rs.10 Cr spent)	2.57	3.32	3.91
Number of IPRs licensed out (per Rs.10 Cr spent)	0.16	0.16	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.16	0.16	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.8	0.47	0.65
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.01	0.05
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.62	0.53	0.48
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.6	0.4	2.03
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.57	2.73	2.04
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	14.13	14.75	11.74
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	1.57	2.73	4.59
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	28.75	27.51	28.24
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	65.86	65.82	66.22
Percentage of organisation's budget spent on R&D and S&T	31.58	27.19	20.47
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	21.99	39.89	33.67
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	73.8	75.4	78.6
Percentage of women scientists and researchers to the total scientific and research staff	36.6	66	73
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.39	0.34	0.42
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	7.4	0	6.12
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Institute of Minerals and Materials Technology

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: CSIR-Institute of Minerals and Materials Technology (IMMT) is a constituent R&D laboratory under the aegis of the Council of Scientific and Industrial Research (CSIR), New Delhi. The main thrust of R&D at CSIR-IMMT has been to empower Indian industries to meet the challenges of globalization by providing advanced and zero waste process knowhow and consultancy services for commercial exploitation of natural resources through the public-private -partnership (PPP) approach. Today, CSIR-IMMT is the first choice for many mineral based industries. It is also carving out a niche in processing of advanced materials for greater value addition and working on resource use efficiency of critical raw materials .

Location Bhubaneswar, Odisha

Areas of Research: Minerals, Metals, Materials , Environment, Water , Energy & Energy Devices and Strategic sector

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	331	357	296
Staff engaged in R&D	216	275	236
Total Budget of the institution (Rs. Crores)	70.62	84.91	91.42

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.31	1.82	0.42
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	6.48	3.27	2.97
Number of projects executed (per 100 scientific staff)	39.35	32	41.95
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	5.56	3.27	21.19
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	7.36	23.55	54.58
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.27	1.88	0.88
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-20.83	21.45	-16.53
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.42	0.35	0.44
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0.85	1.06	1.75
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	4.17	4.36	4.24
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	69.44	36.36	43.22
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	55.09	50.91	52.12
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	17.13	5.45	5.08
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	625.46	484.36	601.27
Percentage of publications in top 10% journals	6.72	7.86	10.57
Number of IPRs filed (per Rs.10 Cr spent)	0.99	0.47	0.22
Number of IPRs granted (per Rs.10 Cr spent)	1.13	0.59	0.33
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.12	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0.35	0.11
Number of new services/products introduced (per Rs.10 Cr spent)	0.71	0.35	0.44
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	2.07	2.76	2.1
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.25	0.29	0.4
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.44	1.58	1.87
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.14	0.23	0.3
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	7.41	9.45	15.26
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0.42
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	31.18	26.9	27.02
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	65.3	77	79.7
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0.46	0.36	1.27
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	77.3	80.4	72.9
Percentage of women scientists and researchers to the total scientific and research staff	40.7	44	45
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	4	3.5	4
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	23	10	16
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-National Botanical Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: Undertaking basic and applied research on various aspects of plant science, including documentation, systematics, conservation, prospection and genetic improvement with particular emphasis on under-exploited, non-traditional and wild plant genetic resources of the country for sustainable development and human welfare.

Location	Lucknow, Uttar Pradesh
Areas of Research: Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare; Energy (conventional and nonconventional) and Energy devices	
Type of R&D performed	Basic R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	535	514	527
Staff engaged in R&D	317	325	362
Total Budget of the institution (Rs. Crores)	95.89	93	85.88

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	4.73	1.85	1.38
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.21	2.46	3.31
Number of projects executed (per 100 scientific staff)	38.8	40.31	33.98
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	1.26	1.23	1.66
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	21.77	25.23	23.76
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	9.59	11.08	28.3
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.36	1.61	1.86
Increase in the number of staff engaged in R&D (per 100 scientific staff)	5.05	2.46	10.22
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	9.46	7.08	5.8
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	33.75	30.46	23.48
Number of trainings imparted (per 100 scientific staff)	3.15	3.38	3.04
Number of skill development programmes conducted (per 100 scientific staff)	3.15	3.38	3.04
Number of permanent scientists deputed to provide training (per 100 scientific staff)	9.46	12.92	9.67
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.62	0.28
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	47	36.92	43.92
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	1.26	0.62	2.49
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	358.04	382.46	351.38
Percentage of publications in top 10% journals	6.04	3.33	5.03
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0.95	0.92	1.1
Number of reports leading to designs and products (per 100 scientific staff)	0.63	0	0.28
Number of IPRs filed (per Rs.10 Cr spent)	0.42	0.54	0
Number of IPRs granted (per Rs.10 Cr spent)	0.94	0.54	0.23
Number of IPRs licensed out (per Rs.10 Cr spent)	0.42	0.22	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0.12
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.52	0.32	0.47
Number of new services/products introduced (per Rs.10 Cr spent)	0.73	0.86	0.7
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.63	0.21
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.09	0.2	0.06
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.87	1.82	1.57
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.01	0.11	0.12

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.32	0.62	0.28
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	8.2	6.46	9.94
Number of national collaborative projects executed with industry (per 100 scientific staff)	0.32	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	9.15	8.31	8.56
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	29.42	23.35	27.76
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	59.25	63.22	68.69
Percentage of organisation's budget spent on R&D and S&T	19.99	33.61	17.37
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	9.78	12.31	8.84
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	83.9	84.9	87.3
Percentage of women scientists and researchers to the total scientific and research staff	47.32	61.23	52.21
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.02	0	0.02
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	48	32	20
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-National Chemical Laboratory

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To carry out R&D in chemical and related sciences with a view to eventually deliver a product, process, intellectual property, tacit knowledge or service that can create wealth and provide other benefits to NCL's stakeholders; To build and maintain a balance portfolio of scientific activities as well as R&D programs to enable NCL to fulfill the demands of its stakeholders, present and future; To create and sustain specialized Knowledge Competencies and Resource Centers within NCL which can provide support to all stakeholders of NCL; To contribute to the creation of high quality Ph.D. students with competencies in the area of chemical, material, biological and engineering sciences.

Location	Pune, Maharashtra
Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials; Energy (conventional and nonconventional) and Energy devices; Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare; Chemicals (including leather) and Petrochemicals	
Type of R&D performed	Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	650	584	600
Staff engaged in R&D	334	299	347
Total Budget of the institution (Rs. Crores)	234.4	215.66	208.47

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	4.19	4.35	2.02
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.99	2.34	1.73
Number of projects executed (per 100 scientific staff)	29.34	30.1	25.36
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	7.19	8.7	8.65
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	9.6	17.11	19.62
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.3	0.19	0.1
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-11.08	-11.71	13.83
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	2.99	3.99	4.17
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.38	1.02	0.86
Number of new hires by the current incubatees (per Rs.10 Cr spent)	11.52	9.27	15.78
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	18.86	38.46	21.9
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	91.62	84.62	70.61
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.6	0.33	0.29
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	187.43	177.59	137.46
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	2402.1	2695.99	2167.44
Percentage of publications in top 10% journals	7.99	8.29	8.6
Number of IPRs filed (per Rs.10 Cr spent)	8.23	6.58	7.58
Number of IPRs granted (per Rs.10 Cr spent)	10.24	8.81	10.84
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0.19
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0.38
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.77	0.65	0.67
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.51	0.7	0.72
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.77	0.6	0.62
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.47	0.65	0.67
Number of international collaborative projects executed with industry (per 100 scientific staff)	2.69	1.34	0.58
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0.33	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	34.13	35.78	22.19
Number of national collaborative projects executed with industry (per 100 scientific staff)	4.49	3.01	2.02

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0.67	0.86
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	69.33	64.12	61.13
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	51.38	51.2	57.83
Percentage of organisation's budget spent on R&D and S&T	61	62	61
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	26.05	27.42	21.33
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	69.76	65.22	39.77
Percentage of women scientists and researchers to the total scientific and research staff	39.82	35.79	33.72
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	18	10	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-National Environmental Engineering Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To provide innovative and effective solutions for environmentally sustainable development and to help Government, industry and society particularly for Government National and State Mission Programs and fulfilling requirements of SDGs; development of cost-effective and need-based and bio-inspired technological innovations in a sustainable, inclusive and people-centered manner; contribute to policy making, environmental regulations and implementation; extend an array of services to the judiciary, Government Ministries and Departments, Industries; to train the manpower through its skill development programs to generate skilled manpower and help in employment generation; to advance innovations in environmental science and engineering.

Location	Nagpur, Maharashtra
Areas of Research: Civil Infrastructure & Engineering; Ecology, Environment Earth & Ocean Sciences and Water; Energy (conventional and nonconventional) and Energy devices	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	407	388	411
Staff engaged in R&D	271	258	293
Total Budget of the institution (Rs. Crores)	80.65	95.15	104.27

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.74	0.39	0.34
Number of projects executed (per 100 scientific staff)	32.47	45.35	42.66
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	44.28	37.6	37.2
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	129.68	72.3	73.75
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.11	1.37	1.73
Increase in the number of staff engaged in R&D (per 100 scientific staff)	8.86	-5.04	11.95
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	4.8	2.33	3.41
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	56.83	88.37	91.81
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	42.07	57.36	44.03
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	10.33	12.02	22.53
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	278.6	383.33	520.48
Percentage of publications in top 10% journals	7.02	10.81	6.98
Number of IPRs filed (per Rs.10 Cr spent)	0.87	1.68	0.77
Number of IPRs granted (per Rs.10 Cr spent)	4.71	0.32	0.58
Number of IPRs licensed out (per Rs.10 Cr spent)	0.37	0.21	0.38
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	3.97	4.2	4.03
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.37	0.32	0.58
Number of new services/products introduced (per Rs.10 Cr spent)	1.12	0.95	0.67
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	2.21	3.89	3.63
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.04	1.71	1.18
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.84	2.43	1.52
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.05	0.1	0.01
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0.39	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.48	2.71	1.71
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	10.33	15.89	8.53
Number of national collaborative projects executed with industry (per 100 scientific staff)	59.04	57.36	68.94

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	17.71	27.13	25.26
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	31.83	41.22	34.7
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	66.58	66.99	71.28
Percentage of organisation's budget spent on R&D and S&T	26	38	39
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0.37	0	0.34
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	73.1	74.8	69.3
Percentage of women scientists and researchers to the total scientific and research staff	18.8	18.2	19.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	2	2	2
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10	10	10
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-National Geophysical Research Institute

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: The pursuit of earth science research which strives for global impact and its application for optimizing sustainable societal, environmental, economic benefits for the Nation.

Location	Hyderabad, Telangana
Areas of Research: Mining, Minerals; Ecology, Environment, Earth & Ocean Sciences and Water; Energy (conventional and nonconventional)	
Type of R&D performed	Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	532	492	516
Staff engaged in R&D	266	244	293
Total Budget of the institution (Rs. Crores)	131.68	127.55	138.74

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.38	0.41	0
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	31.58	34.43	28.33
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	1.5	1.64	2.05
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	22.56	31.15	17.06
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	4.25	10.11	8.36
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.15	0	0.07
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-12.78	-9.02	16.72
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	1.5	3.28	3.41
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	25.19	34.84	28.33
Number of trainings imparted (per 100 scientific staff)	1.5	2.46	1.71
Number of skill development programmes conducted (per 100 scientific staff)	0.38	1.64	1.71
Number of permanent scientists deputed to provide training (per 100 scientific staff)	5.26	22.13	23.55
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.41	0.68
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	63.16	61.07	49.15
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	8.27	7.38	1.71
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	312.78	351.23	302.73
Percentage of publications in top 10% journals	2.38	1.34	4.86
Number of technology documents prepared in the last three years (per 100 scientific staff)	8.27	16.39	15.36
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0.08	0.08	0.07
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.08	0.07
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.56	1.81	1.95
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.13	0.08	0.02
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.55	1.81	1.95
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.12	0.08	0.01

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.88	1.64	1.02
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	18.42	13.94	15.36
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	21.79	19.33	13.48
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	2	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	50	49.59	56.78
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	4.51	2.87	3.75
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	58.3	73	79.2
Percentage of women scientists and researchers to the total scientific and research staff	19.9	29.9	35.2
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1.2	1.5	1.1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	3.33	3.15	6.06
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-National Institute for Interdisciplinary Science and Technology

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: The mandate is to conduct research and development activities of the highest quality in areas related to effective utilization of resources of the region and of fundamental importance to the country. Currently, NIIST is engaged in R & D programmes in areas related to Agro-processing and technology, Chemical Sciences and technology, Materials Science and Technology, Microbial processes & technology, Environmental Technology.

Location Thiruvananthapuram, Kerala

Areas of Research: Mining, Minerals, Metals and Materials; Energy (conventional and nonconventional) and Energy devices; Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare; Chemicals (including leather) and Petrochemicals

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	450	402	508
Staff engaged in R&D	371	326	440
Total Budget of the institution (Rs. Crores)	58.94	59.98	88.96

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	6.47	7.36	5.45
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	6.47	7.36	5.45
Number of projects executed (per 100 scientific staff)	28.03	39.26	29.55
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	1.62	2.15	1.59
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	2.17	5.4
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.51	0.5	0.56
Increase in the number of staff engaged in R&D (per 100 scientific staff)	5.39	-13.8	25.91
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	12.4	11.66	6.14
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	39.62	46.93	67.05
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	100.54	77.91	47.05
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	1.08	0.61	1.36
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	685.98	833.74	664.55
Percentage of publications in top 10% journals	4.83	6.3	6.28
Number of IPRs filed (per Rs.10 Cr spent)	1.19	1.33	0.56
Number of IPRs granted (per Rs.10 Cr spent)	3.73	1.5	0.56
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0.11
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.34	0.67	0.67
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.88	2.1	1.26
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.13	0.16	0.17
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.92	2.37	0.89
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.15	0.18	0.4
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0.23
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.27	0.92	1.36
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	21.84	20.24	13.86
Number of national collaborative projects executed with industry (per 100 scientific staff)	4.31	6.13	5.45

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	1.08	1.23	1.59
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	34.05	29.01	25.24
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	82.4	81.09	86.6
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0.31	0.68
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	86.25	80.37	82.95
Percentage of women scientists and researchers to the total scientific and research staff	45.82	42.02	40.25
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.25	0.25	0.25
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	7	7	8
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-National Institute of Oceanography

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To develop knowledge on physical, chemical, biological, geological, geophysical, engineering and pollution aspects of the waters around India; To provide support to various industries, government and non-government organisations through consultancy and contract research; To disseminate knowledge on the waters around India.

Location	Dona Paula, Goa
Areas of Research:	Ecology, Environment, Earth & Ocean Sciences and Water; Energy (conventional and nonconventional) and Energy devices ;Agri, Nutrition & Biotechnology; Healthcare
Type of R&D performed	Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	535	460	449
Staff engaged in R&D	327	274	284
Total Budget of the institution (Rs. Crores)	146.36	160.67	161.11

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.31	0	0
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	106.42	120.07	106.34
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0.92	1.09	1.06
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	1.83	1.82	1.41
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1.09	0.75	0.74
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.75	0.5	0.81
Increase in the number of staff engaged in R&D (per 100 scientific staff)	8.56	-19.34	3.52
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	7.03	6.93	8.8
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	69.72	86.5	101.41
Number of trainings imparted (per 100 scientific staff)	0.61	0.73	0.7
Number of skill development programmes conducted (per 100 scientific staff)	0	0	0
Number of permanent scientists deputed to provide training (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.73	0.35
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.31	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	77.37	74.09	71.13
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	407.95	575.91	582.04
Percentage of publications in top 10% journals	5.14	5.42	4.95
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0.12	0
Number of IPRs granted (per Rs.10 Cr spent)	0.07	0.12	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.14	0.06	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.39	1.38	1.22
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.06	2	1.27
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0.36	0.35
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	27.22	17.88	21.48
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	23.83	29.02	25.46
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	No	No	No
Percentage of permanent scientists and contractual researchers	61.1	59.6	63.3
Percentage of organisation's budget spent on R&D and S&T	41	47	48
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	75.8	73	75.4
Percentage of women scientists and researchers to the total scientific and research staff	36.4	42	43.3
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.02	0.02	0.02
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	2.6	0	1.8
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-National Institute of Science Communication and Information Resources

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To provide formal linkages of communication among the scientific community in the form of research journals in different areas of S&T To disseminate S&T information to general public, particularly school students, to inculcate interest in science among them To collect, collate and disseminate information on plant, animal and mineral wealth of the country To harness information technology applications in information management with particular reference to science communication and modernizing libraries To act as a facilitator in furthering the economic, social, industrial, scientific and commercial development by providing timely access to relevant and accurate information To develop human resources in science communication, library, documentation and information science and S&T information management systems and services To collaborate with international institutions and organizations having objectives and goals similar to those of NISCAIR Any other activity in consonance with the mission statement of NISCAIR

Location New Delhi

Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials; Chemicals (including leather) and Petrochemicals; Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare

Type of R&D performed Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	190	162	152
Staff engaged in R&D	32	29	27
Total Budget of the institution (Rs. Crores)	96.14	65.62	77.8

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	6.25	17.24	22.22
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	0	0
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	6.25	34.48	48.15
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	9.47	32.16	27.76
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.62	0.61	0.77
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	-10.34	-7.41
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of trainings imparted (per 100 scientific staff)	9.38	27.59	18.52
Number of skill development programmes conducted (per 100 scientific staff)	25	41.38	48.15
Number of permanent scientists deputed to provide training (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	53.13	37.93	22.22
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	3.7
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.31	0.62	1.88
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.02	0.01	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.13	6.9	7.41
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	31.88	21.07	22.22
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	0	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	16.8	17.9	17.8
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	26.92	27.27	41.37
Percentage of women scientists and researchers to the total scientific and research staff	46.15	50	48.27
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-National Institute of Science, Technology And Development Studies

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: Provide Policy Advocacy on Techno-Socio-economic issues identified by CSIR/Govt. Act as a Think Tank foresight and S&T Design integration socio-economics to create enabling and applicable S&T and its inclusive penetration and provide periodics inputs. Identify S&T needs for national missions and create road maps for Sustainable Development Goals.

Location	New Delhi
Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials; Energy (conventional and nonconventional) and Energy devices; Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	78	73	71
Staff engaged in R&D	51	46	46
Total Budget of the institution (Rs. Crores)	21.37	20.05	19.56

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	19.61	32.61	21.74
Beneficiaries of lab's programmes	Government Departments	Government Departments	Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	0	0
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0	58.7	47.83
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	4.21	1.5	1.02
Increase in the number of staff engaged in R&D (per 100 scientific staff)	54.9	-10.87	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	17.65	13.04	47.83
Number of trainings imparted (per 100 scientific staff)	0	0	0
Number of skill development programmes conducted (per 100 scientific staff)	0	0	0
Number of permanent scientists deputed to provide training (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	41.18	13.04	6.52
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	66.67	78.26	50
Percentage of publications in top 10% journals	0	0	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0.5	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.13	0.07
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.29	0.1	0.03
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	21.57	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	1.96	2.17	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	20.59	13.04	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	65.4	63	64.8
Percentage of organisation's budget spent on R&D and S&T	2.98	5.39	4.6
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	76.5	71.7	71.7
Percentage of women scientists and researchers to the total scientific and research staff	39.2	41.3	30.4
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-National Metallurgical Laboratory

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: To innovate, develop, transfer, standardize and provide specialized services such as Research & Development, Technology Transfer, Consultancy, Standard and Quality to support the Scientific and Industrial Growth and success in the areas of Minerals, Metals and Advanced Materials, by putting our experienced team of scientists, engineers, a wealth of state-of-the-art technology and facilities to work

Location	Jamshedpur, Jharkhand
Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Mining, Minerals, Metals and Materials	
Type of R&D performed	Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	442	446	430
Staff engaged in R&D	212	233	233
Total Budget of the institution (Rs. Crores)	114.16	106.88	112.69

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	20.75	20.17	24.03
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	20.75	20.17	24.03
Number of projects executed (per 100 scientific staff)	84.91	81.12	74.68
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	1.89	2.15	1.72
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	15.57	20.17	29.18
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	31.27	35.27	65.31
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.96	1.22	0.8
Increase in the number of staff engaged in R&D (per 100 scientific staff)	1.89	9.01	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	29.72	20.6	13.73
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	52.83	51.07	51.93
Number of trainings imparted (per 100 scientific staff)	8.49	6.44	8.15
Number of skill development programmes conducted (per 100 scientific staff)	4.25	3.86	9.87
Number of permanent scientists deputed to provide training (per 100 scientific staff)	3.77	2.58	5.15
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.47	0.43	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	45.28	48.07	49.36
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	2.36	1.29	1.72
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	363.68	333.91	341.63
Percentage of publications in top 10% journals	2.08	8.93	6.96
Number of technology documents prepared in the last three years (per 100 scientific staff)	12.74	11.16	13.3
Number of national and international recognitions received by the lab (per 100 scientific staff)	13.68	13.73	18.88
Number of reports leading to designs and products (per 100 scientific staff)	9.91	7.3	9.01
Number of IPRs filed (per Rs.10 Cr spent)	1.14	2.9	2.13
Number of IPRs granted (per Rs.10 Cr spent)	1.05	1.03	0.53
Number of IPRs licensed out (per Rs.10 Cr spent)	0.26	0.28	0.44
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.09	0.47	0.18
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.26	0.28	0.44
Number of new services/products introduced (per Rs.10 Cr spent)	1.05	0.84	1.15
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	2.64	3.57	1.99
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.02	0.8	0.76
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	5.81	6.17	5.79
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0.47	0.86	0.86
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0.43	0.43
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	5.66	9.44	5.15
Number of national collaborative projects executed with industry (per 100 scientific staff)	18.87	9.44	9.01
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	24.35	20.34	15.63
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	48	52.2	54.2
Percentage of organisation's budget spent on R&D and S&T	22.5	18.98	16.45
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	45.28	36.91	30.9
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	57.5	63.1	60.5
Percentage of women scientists and researchers to the total scientific and research staff	23.6	23.6	26.2
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	3	3	4
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	30	46	60
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-National Physical Laboratory

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: Developing India's measurement standards that are internationally accepted and disseminating the measurement capabilities to industry, government, strategic, and academia that underpin India's prosperity and quality of life; Conducting multidisciplinary R&D with a mission to establish the futuristic quantum standards and upcoming technologies so that India remains on par with international measurement laboratories; Developing sophisticated analytical equipment (i.e. import substitutes) under the 'Make in India' programme to cater to the ever-increasing demands of emerging India; Training of young scientists and industry personnel in the areas of measurements under the 'Skill India' program.

Location	New Delhi
Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Mining, Minerals, Metals and Materials; Energy (conventional and nonconventional) and Energy devices; Ecology, Environment, Earth & Ocean Sciences and Water; Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	571	623	579
Staff engaged in R&D	231	300	281
Total Budget of the institution (Rs. Crores)	169.05	144.09	150.36

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.3	0.67	0.36
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.3	0	0.36
Number of projects executed (per 100 scientific staff)	30.3	28.67	26.69
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0.87	1	1.42
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	5.63	3.33	3.91
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	14.73	9.99	6.45
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.12	0.49	0.27
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-7.79	23	-6.76
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	7.79	9.67	9.61
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	60.17	49	40.93
Number of trainings imparted (per 100 scientific staff)	7.79	4.67	1.78
Number of skill development programmes conducted (per 100 scie	7.79	4.67	1.78
Number of permanent scientists deputed to provide training (per 10	12.55	7.67	8.19
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.43	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	176.62	123	129.18
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	2.16	0.67	1.42
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	1523.81	1103.67	1330.25
Percentage of publications in top 10% journals	9.56	7.32	9.92
Number of technology documents prepared in the last three years (	2.16	2.67	3.91
Number of national and international recognitions received by the la	1.3	1.33	0
Number of reports leading to designs and products (per 100 scienti	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0.65	0.62	0.07
Number of IPRs granted (per Rs.10 Cr spent)	0.95	1.11	0.86
Number of IPRs licensed out (per Rs.10 Cr spent)	0.24	0.21	0.2
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.21	0.07
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.3	0.42	0.27
Number of new services/products introduced (per Rs.10 Cr spent)	0.3	4.23	5.19
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.04	0.16	0.16
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.43	0.53	0.62
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.03	0.16	0.15
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.03	0.09	0.21

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	47.19	29	27.76
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	129.02	92.59	98.89
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	2	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	40.5	48.2	48.5
Percentage of organisation's budget spent on R&D and S&T	55.86	51.64	49.58
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	10.82	7.33	9.25
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	35.1	54.7	50.5
Percentage of women scientists and researchers to the total scientific and research staff	22.1	35.7	31
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-North East Institute of Science and Technology

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: The charter of the institute has been aimed at (i) putting to effective use the immense material resources of the North Eastern region of India and to provide R&D inputs for developing the economy of the region in particular and country as a whole. (ii) helping the region in solving such problems of development confronting it from time to time (iii) taking up long range problems, solution of which would help the economic development and industrialization of the North Eastern Region and (iv) functioning as a link between the state organization and other national laboratories on problems requiring specialized attention.The institute is currently working in the frontier areas of science like Agro-technologies, Environmental studies, Herbal formulations, Bioremediation of hydrocarbon contaminated soil, Earthquake Seismology, Geotechnical investigations, Soil and Building materials, Nano and Advanced materials, Catalysts, Synthetic molecules, Coal & petroleum, Oilfield chemicals, Paper products and Natural products and fibres, etc.

Location	Jorhat, Assam
Areas of Research: Mining, Minerals, Metals and Materials, Chemicals (including leather) and Petrochemicals; Ecology, Environment, Earth & Ocean Sciences and Water; Energy (conventional and nonconventional) and Energy devices; Agri, Nutrition & Biotechnology; Healthcare	
Type of R&D performed	Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	277	310	300
Staff engaged in R&D	151	198	201
Total Budget of the institution (Rs. Crores)	110.38	93.01	108.54

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.65	2.02	0
Number of projects executed (per 100 scientific staff)	35.1	31.31	32.34
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	0	0
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	6.62	6.57	5.47
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	46.11	208.47	187.3
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.45	0.75	1.01
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-48.34	23.74	1.49
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of trainings imparted (per 100 scientific staff)	0	0	0
Number of skill development programmes conducted (per 100 scientific staff)	9.93	12.63	24.88
Number of permanent scientists deputed to provide training (per 100 scientific staff)	4.64	3.54	2.99
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.51	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	76.16	69.19	67.16
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	4.64	3.03	0.5
Number of technology documents prepared in the last three years (per 100 scientific staff)	8.61	9.09	6.97
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	4.64	3.03	0.5
Number of IPRs filed (per Rs.10 Cr spent)	0.63	0.11	0
Number of IPRs granted (per Rs.10 Cr spent)	1.09	0.65	0.09
Number of IPRs licensed out (per Rs.10 Cr spent)	0.18	0.32	0.55
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.18	0.32	0.55
Number of new services/products introduced (per Rs.10 Cr spent)	0.45	0.43	0.64
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.04	3.97	0.81
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.03	0.22	0.08
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.02	3.83	0.59
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.01	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	15.23	14.65	12.44

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0.66	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.31	4.04	3.48
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	1	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	54.5	63.9	67
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	7.28	1.01	2.99
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	55	65.7	66.2
Percentage of women scientists and researchers to the total scientific and research staff	32.5	36.4	36.3
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0.36	0.65	0.67
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

CSIR-Structural Engineering Research Centre

Ministry/Department/Organisation: Council of Scientific & Industrial Research

Mandate of the institution: Mission of CSIR-SERC is to pursue and excel in research in frontier / cutting edge areas of structural engineering and to create niche areas; to emerge as the most preferred resource centre for industry for solving new challenges in structures of different sizes, shapes, geometry and purpose of use; to develop and transfer sustainable technologies addressing societal needs; and to be a preferred knowledge centre for providing structural engineering solutions for pre- and post-disaster needs.

Location	Chennai, Tamil Nadu
Areas of Research: Aerospace, Electronics and Instrumentation & Strategic Sector; Civil Infrastructure & Engineering; Mining, Minerals, Metals and Materials; Ecology, Environment, Earth & Ocean Sciences and Water	
Type of R&D performed	Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	290	293	243
Staff engaged in R&D	161	170	128
Total Budget of the institution (Rs. Crores)	67.69	68.19	81.9

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	1.18	2.34
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	75.78	57.06	52.34
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	18.63	20	25.78
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	21.74	14.71	17.97
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	21.12	44.72	77.89
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0.29	0.24
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-20.5	5.29	-32.81
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	6.83	1.76	4.69
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	39.13	45.88	64.84
Number of trainings imparted (per 100 scientific staff)	1.24	0.59	0.78
Number of skill development programmes conducted (per 100 scientific staff)	6.83	10	15.63
Number of permanent scientists deputed to provide training (per 100 scientific staff)	5.59	19.41	14.06
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.62	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	35.4	34.71	51.56
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	63.35	91.18	129.69
Percentage of publications in top 10% journals	5.26	5.08	3.03
Number of technology documents prepared in the last three years (per 100 scientific staff)	3.73	4.12	7.03
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	1.18	0.78
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0.15	0.15	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0.3	0	0.12
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.44	0.29	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.59	0.15	0.24
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.46	0.41	0.41
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.09	0.93	1.14
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.79	1.17	0.62
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.94	1.04	0.8

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.73	4.71	4.69
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	55.51	58	52.67
Percentage of organisation's budget spent on R&D and S&T	14.8	19.7	24.22
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.11	2.94	3.91
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	70.18	72.35	62.5
Percentage of women scientists and researchers to the total scientific and research staff	27.95	30	20.31
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.05	0.11	0.09
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	43	34	43
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

सत्यमेव जयते

DEPARTMENT OF BIOTECHNOLOGY

Ministry of Science & Technology

Government of India

Centre for DNA Fingerprinting and Diagnostics

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: The CDFD has a dual mandate- to provide services in the areas of DNA profiling and genetic diagnostics; to undertake frontier-level research in various disciplines of molecular biology.

Location Hyderabad, Telangana

Areas of Research: Genetics-Omics

Type of R&D performed Basic R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	294	288	282
Staff engaged in R&D	175	176	176
Total Budget of the institution (Rs. Crores)	43.9	43	49

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.14	1.14	1.7
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	35.43	30.68	32.95
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	4.57	5.11	2.84
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0.57	1.14	4.55
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	5.24	6.51	34.49
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0.23	1.84
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-4	0.57	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	8.57	7.95	10.23
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	13.14	15.91	22.73
Number of trainings imparted (per 100 scientific staff)	5.14	10.8	11.93
Number of skill development programmes conducted (per 100 scientific staff)	0.57	0.57	4.55
Number of permanent scientists deputed to provide training (per 100 scientific staff)	1.71	1.14	0.57
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	1.14	1.7	1.7
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	29.14	46.02	31.82
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	242.86	241.48	246.02
Percentage of publications in top 10% journals	13.73	3.7	1.79
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0.61
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.2
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.23	0.2
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0.41
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.14	0.18	0.29
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.08	0.04
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.97	2.65	4.75
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.29	1.7	1.14
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	5.71	15.91	5.11
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	5.14	5.11	3.98
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	11.54	24.63	16.78
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	59.52	61.11	62.41
Percentage of organisation's budget spent on R&D and S&T	65.37	65.11	68.36
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	No	No	No
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	1.14
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	82.85	82.95	84.09
Percentage of women scientists and researchers to the total scientific and research staff	43.42	47.15	51.13
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0.01	0.46
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Institute for Stem Cell Science and Regenerative Medicine

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: Research at inStem addresses complex problems in areas of cell-differentiation and tissue regeneration using human pluripotent cells, examines clinical manifestations of diseases that can potentially be treated by stem cells, models human diseases using stem cells, uses model organisms to address fundamental questions in regenerative biology, develops platforms to interrogate signaling pathways with new chemical entities, and finally, develops tools that will help to better understand the biology driving stem cells and eventually treat disease states. Research is carried out by groups who work on tightly-knit themes, crossing boundaries and developing new approaches to address questions larger than the expertise of the individual laboratory.

Location	Bengaluru, Karnataka
Areas of Research:	Cell and Molecular Biology
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	249	284	248
Staff engaged in R&D	207	221	196
Total Budget of the institution (Rs. Crores)	69.26	83.57	66.7

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.97	0.9	1.53
Number of projects executed (per 100 scientific staff)	34.3	28.96	32.14
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	23.19	19	27.04
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	11.55	9.09	12.14
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.43	0.48	0.75
Increase in the number of staff engaged in R&D (per 100 scientific staff)	3.86	6.33	-12.24
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0.3
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0.24	1.65
Number of consultancies undertaken for startups (per 100 scientific staff)	0.48	0.45	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0.97	1.81	2.55
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	48.79	48.87	29.59
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	40.58	37.56	43.88
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	243.48	339.82	135.71
Percentage of publications in top 10% journals	14.29	13.25	17.44
Number of IPRs filed (per Rs.10 Cr spent)	0.29	0.72	0.45
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.15
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.12	0.3
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0.12	0.3
Number of new services/products introduced (per Rs.10 Cr spent)	0	0.24	0.15
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.02	0.14
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0.01
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0.51
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	4.35	3.17	2.55
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	27.05	21.27	27.55
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.9	1.81	0.51
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	15.53	27.48	22.96
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	83	77	79
Percentage of organisation's budget spent on R&D and S&T	81	79	79
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.86	2.71	2.55
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	43	39	37
Percentage of women scientists and researchers to the total scientific and research staff	47	51	50
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.71	1.9	0.9
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	75	75	75
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Institute of Bioresources and Sustainable Development

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: To set up the state of art biotechnology research facilities at Imphal which is at the centre of the Indo-Burmese Biodiversity Hotspot for sustainable development of bioresources using -tools of modern biology; To study and document the unique biodiversity of bio-geographic junction of the Indian and oriental landmasses; To develop biotechnological interventions for sustainable development and utilization of bioresources; To undertake capacity building (human resource development) in bioresouces conservation and management; To generate technological packages for employments generation and economic progress of the region; To collaborate with other institutions/- organizations/- universities nationally and internationally in furthering research pursuits in bioresources.

Location	Imphal, Manipur
Areas of Research: Applied / Industrial Biotechnology	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	202	240	248
Staff engaged in R&D	55	49	58
Total Budget of the institution (Rs. Crores)	25	27.43	27.68

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	18.18	32.65	36.21
Beneficiaries of lab's programmes	Government Departments	Government Departments	Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	10.91	20.41	8.62
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1658	1177.54	35.04
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.6	1.09	16.26
Increase in the number of staff engaged in R&D (per 100 scientific staff)	9.09	-12.24	15.52
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	7.27	4.08	6.9
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	67.27	61.22	48.28
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	490.91	718.37	875.86
Percentage of publications in top 10% journals	8.11	20	10.71
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.26	1.38	2.46
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	21.82	16.33	17.24

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	2.04	1.72
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.64	16.33	8.62
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	73.68	88.01	74.02
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	27.2	20.4	23.4
Percentage of organisation's budget spent on R&D and S&T	38.26	40.62	39.91
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	No	No	No
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	5.45	8.16	8.62
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	43.6	44.9	44.8
Percentage of women scientists and researchers to the total scientific and research staff	7.3	8.2	6.9
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	20	19	17
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Institute of Life Sciences

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: To conduct basic research for product and process development in the areas of (i) Infectious Disease Biology, (ii) Cancer Biology, (iii) Cell Biology, (iv) Gene Function and Regulation, (iv) Structural Biology, (v) Immunology and Auto-Immune Diseases, (vi) Plant Immunity and Plant Biotechnology, and (vii) Environmental Biotechnology; To develop human resources in the field of biotechnology and life sciences ;Conducting short term workshops in advanced areas of modern biology and biotechnology; Popularising science through Science Outreach Activities for school and college students and providing advanced training to the teachers in the field of Life Sciences and Biotechnology.

Location	Bhubaneswar, Odisha
Areas of Research: Life Sciences	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	314	369	406
Staff engaged in R&D	162	212	242
Total Budget of the institution (Rs. Crores)	66.76	82.92	82.96

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.47	1.89	1.65
Number of projects executed (per 100 scientific staff)	19.14	20.75	22.31
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	6.17	7.08	8.26
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	67.41	90.45	96.43
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.9	1.09	1.33
Increase in the number of staff engaged in R&D (per 100 scientific staff)	13.58	25	12.4
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	8.64	5.19	4.13
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	24.69	23.58	18.6
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0.83
Number of publications in quality peer reviewed journals (per 100 scientific staff)	33.95	25.94	26.03
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0.62	0.94	0.41
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	703.09	571.23	469.42
Percentage of publications in top 10% journals	9.09	12.73	11.11
Number of IPRs filed (per Rs.10 Cr spent)	0.3	0	0.24
Number of IPRs granted (per Rs.10 Cr spent)	0	0.36	0.36
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.12	0.12
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.15	0	0.12
Number of new services/products introduced (per Rs.10 Cr spent)	0.15	0.24	0.12
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.01	0.01
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	4.79	5.67	5.18
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.04	0.05	0.05
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.62	1.42	1.24
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	7.41	7.07	7.44
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	8.02	9.43	10.74
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	13.06	10.98	12.5
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	12.35	12.26	10.74
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	51.59	58.27	60.34
Percentage of organisation's budget spent on R&D and S&T	78	75	79
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.7	3.3	2.07
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	85	88	89
Percentage of women scientists and researchers to the total scientific and research staff	45	48	52
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	3	5	5
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	2	3	2
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Agri-Food Biotechnology Institute

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: NABI is the first Agri-Food Biotechnology Institute, established in India on 18th February 2010. The institute, with a mandate of household nutritional security for all, aims at catalysing the transformation of Agri-food sector in India. The institute has the vision to be a nodal organization for knowledge generation and translational science leading to value-added products based on Agri-food biotech innovations. The main research focus of NABI is to harness biotechnological tools in the area of Agriculture Biotechnology, Food and Nutritional Biotechnology so as to provide sustainable and novel solutions towards quality food and nutrition. Translational research in agri-food area is a major priority.

Location	Ajitgarh, Punjab
Areas of Research: Applied / Industrial Biotechnology	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	100	110	110
Staff engaged in R&D	85	95	95
Total Budget of the institution (Rs. Crores)	31	31.48	30.15

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.18	1.05	1.05
Number of projects executed (per 100 scientific staff)	11.76	15.79	23.16
Beneficiaries of lab's programmes	Industry	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	2.35	5.26	1.05
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.32	0	2.65
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	10.53	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	10.59	12.63	7.37
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	49.41	72.63	89.47
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	40	53.68	98.95
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	351.76	372.63	527.37
Percentage of publications in top 10% journals	8.82	5.88	13.83
Number of IPRs filed (per Rs.10 Cr spent)	0.32	0.32	1.99
Number of IPRs granted (per Rs.10 Cr spent)	0	0	1
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.32	0.32	0.33
Number of new services/products introduced (per Rs.10 Cr spent)	0.32	0.32	0.33
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0.01
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.21	2.42	1.05
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0.06
Number of international collaborative projects executed with industry (per 100 scientific staff)	1.18	2.11	2.11
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	3.53	2.11	2.11
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	14.12	17.89	45.26

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.18	2.11	3.16
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.53	4.21	5.26
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	30.4	22.47	45.78
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	2	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	85	86	86
Percentage of organisation's budget spent on R&D and S&T	27.45	37.03	40.85
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.18	4.21	3.16
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	86	96	76
Percentage of women scientists and researchers to the total scientific and research staff	41	37	31
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.18	0.33	0.44
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10	20	10
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Brain Research Centre

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: The mandate of National Brain Research Centre (NBRC) is to Pursue research to understand brain function in health and disease; Generate trained human resources with the capability to carry out interdisciplinary research in neuroscience; Promote neuroscience in India through networking among institutions across the country.

Location	Gurgaon, Haryana
Areas of Research: Medical Biotechnology	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	257	243	199
Staff engaged in R&D	254	239	196
Total Budget of the institution (Rs. Crores)	27.71	32	29.13

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0.84	0.51
Number of projects executed (per 100 scientific staff)	16.54	12.13	13.27
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	8.27	5.86	7.14
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	25.62	29.69	22.66
Increase in the number of staff engaged in R&D (per 100 scientific staff)	1.97	-2.09	6.12
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	5.51	4.18	11.22
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	11.42	22.59	15.82
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	1.97	1.26	0.51
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	29.13	23.01	24.49
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	415.35	451.05	555.1
Percentage of publications in top 10% journals	5.41	7.27	12.5
Number of IPRs filed (per Rs.10 Cr spent)	0.36	0.31	0.69
Number of IPRs granted (per Rs.10 Cr spent)	0	0.63	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0.31	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	24.94	30.48	33.24
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.39	0.42	0.51
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	4.73	5.86	9.69
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.36	3.35	4.08
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	15.13	10.96	10.59
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0.39	0.42	0.51
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	44.73	22.03	44.83
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	No	No	No
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.18	0	0.51
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	93	93	91
Percentage of women scientists and researchers to the total scientific and research staff	36.7	32.07	30.92
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	10	10	10
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	29.42	30.77	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Centre for Cell Science

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: NCCS performs cutting-edge research relevant to human health & disease. NCCS is set up with a mandate of three main functions: Research in cell biology; Serving as a National Cell Repository; Human Resource Development

Location Pune, Maharashtra

Areas of Research: Cell and Molecular Biology

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	150	149	145
Staff engaged in R&D	130	125	117
Total Budget of the institution (Rs. Crores)	54	61.5	63

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	3.85	5.6	6.84
Number of projects executed (per 100 scientific staff)	43.85	64	67.52
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	37.69	47.2	25.64
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	55.74	76.91	91.59
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	9.26	7.8	6.19
Increase in the number of staff engaged in R&D (per 100 scientific staff)	29.23	-4	-6.84
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	40.77	47.2	52.14
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	65.38	65.6	98.29
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.77	0.8	2.56
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	2.31	2.4	1.71
Number of publications in quality peer reviewed journals (per 100 scientific staff)	85.38	85.6	121.37
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	820.77	892.8	1041.03
Percentage of publications in top 10% journals	9.91	6.54	10.56
Number of IPRs filed (per Rs.10 Cr spent)	0.74	1.14	1.11
Number of IPRs granted (per Rs.10 Cr spent)	0.19	0	0.16
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.37	0.33	0.48
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	3.15	1.14	0.95
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.11	0.14	0.15
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.02	0.01
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	4.93	5.89	6.85
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.19	0.12	0.26
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	3.85	4	3.42
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	23.85	23.2	26.49
Number of national collaborative projects executed with industry (per 100 scientific staff)	2.31	4	1.71

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	12.31	20.8	24.79
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	48.91	49.14	70.21
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	4.62	3.2	3.42
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	86.7	83.9	80.7
Percentage of organisation's budget spent on R&D and S&T	50	62	60
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.85	11.2	7.69
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	72	68	68
Percentage of women scientists and researchers to the total scientific and research staff	42	49	45
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.4	0.75	0.48
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	69	74	81
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Institute of Animal Biotechnology

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: NIAB will focus on translational research and foster bio-entrepreneurship in the animal biotechnology sector through:
Research in the cutting edge areas of biotechnology for improving health and productivity; Production of animal bioreactors in order to strengthen India's role as a global player in Pharma, vaccine and enzyme production; Development of high yielding livestock and poultry from indigenous and global resources; Development of strategies for conservation of indigenous livestock and poultry; Establishment of gene banks for genes of interest.

Location Hyderabad, Telangana

Areas of Research: Animal Biotechnology

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	98	190	206
Staff engaged in R&D	21	39	19
Total Budget of the institution (Rs. Crores)	75.5	53.5	28.08

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	11.76
Number of projects executed (per 100 scientific staff)	52.94	158.82	205.88
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	176.47	552.94	241.18
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	15.89	41.12	14.25
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.53	0.37	0.71
Increase in the number of staff engaged in R&D (per 100 scientific staff)	123.53	0	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	11.76	47.06	100
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	100	188.24	217.65
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	517.65	858.82	4811.76
Percentage of publications in top 10% journals	5.88	0	5.41
Number of IPRs filed (per Rs.10 Cr spent)	0	0.19	1.42
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.92	1.13	4.02
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	35.29	82.35	35.3

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	17.65	47.06	58.82
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	100	125.49	167.42
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	53.13	45.95	44.74
Percentage of organisation's budget spent on R&D and S&T	41	27	18
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	5.88
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	92.3	95.5	94.5
Percentage of women scientists and researchers to the total scientific and research staff	31	45	43
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.12	0.65	0.1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	No	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Institute of Biomedical Genomics

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: To create necessary physical infrastructure to serve as the expert base for principles and practise of biomedical genomics; To conduct and promote cutting edge research in biomedical genomics for better understanding of public health need; To build capacity in biomedical genomics

Location	Faridabad, Haryana
Areas of Research: Medical Biotechnology	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	105	94	93
Staff engaged in R&D	88	78	81
Total Budget of the institution (Rs. Crores)	25.5	26.58	30

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	1.28	1.23
Number of projects executed (per 100 scientific staff)	31.82	38.46	39.51
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	12.5	62.82	67.9
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	25.88	26.34	32.33
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.39	1.13	1
Increase in the number of staff engaged in R&D (per 100 scientific staff)	32.95	-12.82	3.7
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	3.41	2.56	3.7
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	35.23	32.05	25.93
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	1.23
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	26.14	33.33	43.21
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	1404.55	1578.21	1722.22
Percentage of publications in top 10% journals	8.7	3.85	22.86
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.39	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.39	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	3.24	30.58	12.66
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.23	0.12	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.14	1.28	1.23
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	10.23	7.69	13.58
Number of national collaborative projects executed with industry (per 100 scientific staff)	2.27	1.28	1.23

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	19.32	21.79	22.22
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	13.84	27.45	29.91
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	84	83	87
Percentage of organisation's budget spent on R&D and S&T	51	53	54
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.27	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	21.6	24.4	25.9
Percentage of women scientists and researchers to the total scientific and research staff	58	51.3	44.4
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Institute of Plant Genome Research

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: To undertake, aid, promote, guide and co-ordinate research of high caliber in fundamental basic and applied plant molecular biology, to impart advance training at different levels in the field, to serve as information resource in identified aspects of plant genomics, and to undertake collaborative programmes and develop close linkages with National & International Institutes those are engaged in plant research to build a frontline institution.

Location New Delhi

Areas of Research: Life Sciences, Plant Biotechnology

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	227	247	244
Staff engaged in R&D	180	200	196
Total Budget of the institution (Rs. Crores)	38	38	48.24

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	3.33	4.5	6.12
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0.5	1.02
Number of projects executed (per 100 scientific staff)	57.78	60	61.22
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	3.89	4	6.63
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	7.89	7.89	19.28
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.05	3.42	3.52
Increase in the number of staff engaged in R&D (per 100 scientific staff)	8.33	10	-2.04
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	11.67	5.5	6.63
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	43.33	26	34.69
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	1.11	1	1.02
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	49.44	37.5	56.12
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	702.78	590.5	576.53
Percentage of publications in top 10% journals	8.99	20	10.91
Number of IPRs filed (per Rs.10 Cr spent)	0.53	1.84	0.83
Number of IPRs granted (per Rs.10 Cr spent)	0.26	0.53	0.21
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	1.05	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.04	0	0.02
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	10.72	23.71	3.02
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.04	0.15	0.03
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	3.89	5.5	6.12
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	10.56	16	14.79
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.89	5	6.63
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	20.42	12.98	27.53
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0.56	0.5	0.51
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	79	80.97	80.32
Percentage of organisation's budget spent on R&D and S&T	93.07	90.53	91.13
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.22	1.5	1.53
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	87.7	89	88.8
Percentage of women scientists and researchers to the total scientific and research staff	47.8	46	48.97
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	4.21	3.85	5.31
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	81	81	77
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Rajiv Gandhi Centre for Biotechnology

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: Our planning for the development of RGCB comprises a set specific Strategic Goals. Through inclusive strategic planning processes, RGCB has identified these Themes and Strategic Goals as priority areas for the field. The Themes are a more general description of the areas within the field of disease biology that RGCB recognizes as important domains for targeted efforts involved in the institute's mandate, mission and vision. These Themes will allow the development of Strategic Goals, which are the specific target areas identified as priorities by RGCB. As implementation of the Strategic Plan goes forward, these Goals will be the actual areas of focus, activities, and resources. Some of these priority Strategic Goals will represent current strengths of RGCB while for others, the Institute will identify new directions for the field that will answer novel questions and require state of the art capabilities.

Location Thiruvananthapuram, Kerala

Areas of Research: Applied / Industrial Biotechnology

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	528	607	613
Staff engaged in R&D	311	374	332
Total Budget of the institution (Rs. Crores)	75.12	85.24	97.72

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.32	0.27	0.3
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	30.23	30.75	35.24
Beneficiaries of lab's programmes	Individuals, Industry	Individuals, Industry	Individuals, Industry
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	17.68	8.56	9.04
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	4.53	3.99	4.4
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.4	0.12	0.41
Increase in the number of staff engaged in R&D (per 100 scientific staff)	13.83	16.84	-12.65
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	2	0.7	1.02
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0.12	0.31
Number of new hires by the current incubatees (per Rs.10 Cr spent)	1.06	3.28	5.22
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	2.89	7.22	8.13
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	128.62	120.32	150.6
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.8	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	30.23	20.86	28.92
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	179.42	167.65	234.04
Percentage of publications in top 10% journals	6.38	6.41	4.17
Number of IPRs filed (per Rs.10 Cr spent)	0.4	0.12	0.2
Number of IPRs granted (per Rs.10 Cr spent)	0.4	0	0.1
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.12	0.1
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0.12	0.1
Number of new services/products introduced (per Rs.10 Cr spent)	0	0.23	0.72
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.12	0.04	0.05
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.27	0.32	0.24
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.55	1.43	2.23
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.16	0.21	0.16
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.64	0.53	0.9
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	8.68	5.61	6.93
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0.3

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.86	4.28	4.82
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	1.57	7.75	0.33
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	58.9	61.6	54.2
Percentage of organisation's budget spent on R&D and S&T	80	80	81
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.86	2.67	2.41
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	54.3	75.7	72.9
Percentage of women scientists and researchers to the total scientific and research staff	59.2	52.9	51.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	5	5	5
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	4	4	4
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Regional Centre for Biotechnology

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: Mandate of the Centre is to provide a platform for biotechnology education, training and research at the interface of multiple disciplines. The programmes of the Centre are designed to create opportunities for students to engage in multi-disciplinary research where they learn biotech science while integrating engineering, medicine and science, to provide solutions for human and animal health, agriculture and environmental technologies.

Location Faridabad, Haryana

Areas of Research: Applied / Industrial Biotechnology

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	78	118	170
Staff engaged in R&D	46	73	123
Total Budget of the institution (Rs. Crores)	110.89	67.62	100.82

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.17	6.85	6.5
Number of projects executed (per 100 scientific staff)	100	76.71	56.1
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	2.17	2.74	1.63
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	16.32	93.61	52.47
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.36	1.63	1.19
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-21.74	36.99	40.65
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0.44	1.19
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	1.04	3.07
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	10.87	9.59	8.13
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	23.91	32.88	34.15
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	6.52	2.74	1.63
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	69.57	32.88	51.22
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	997.83	534.25	317.07
Percentage of publications in top 10% journals	15.63	0	3.17
Number of IPRs filed (per Rs.10 Cr spent)	0.09	0.3	0.2
Number of IPRs granted (per Rs.10 Cr spent)	0	0.15	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.18	1.04	0.99
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.05	0.11
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.42	0.2
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	6.79	4.98	5.91
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.17	1.37	0.81
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	23.92	8.22	13.01
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	23.91	20.55	15.45
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	52.17	25.83	38.21
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	2.74	1.63
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	58.9	61.9	72.4
Percentage of organisation's budget spent on R&D and S&T	88.3	93.93	91.34
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	23.91	32.88	34.15
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	69.6	67.1	73.9
Percentage of women scientists and researchers to the total scientific and research staff	41.3	46.6	50.4
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.33	1.36	1.12
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	100	100
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Translational Health Science and Technology Institute

Ministry/Department/Organisation: Department of Biotechnology

Mandate of the institution: The institute is a collective of physicians and scientists who work to improve health in India by creating new knowledge for innovation, developing innovative solutions based on existing knowledge, and new strategies for the implementation of existing solutions. THSTI complements the discovery, design, and development of interventions by building rigorous research capacity through high-quality training.

Location	Thiruvananthapuram, Kerala
Areas of Research: Translational Research	
Type of R&D performed	Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	125	110	110
Staff engaged in R&D	45	44	45
Total Budget of the institution (Rs. Crores)	29.48	41.94	54.5

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	8.89	15.91	6.67
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	204.44	215.91	257.78
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	4.44	0	0
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	2.22	22.73	11.11
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1518.32	320.46	211.56
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	3.73	1.19	1.1
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-31.11	-2.27	2.22
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.34	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	2.04	0.72	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	13.64	20
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	22.22	79.55	135.56
Number of trainings imparted (per 100 scientific staff)	37.78	43.18	17.78
Number of skill development programmes conducted (per 100 scientific staff)	2.22	2.27	2.22
Number of permanent scientists deputed to provide training (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	2.22	0	2.22
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	2.22
Number of publications in quality peer reviewed journals (per 100 scientific staff)	166.67	206.82	306.67
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	1888.89	1704.55	888.89
Percentage of publications in top 10% journals	13.33	14.29	11.59
Number of technology documents prepared in the last three years (per 100 scientific staff)	11.11	13.64	6.67
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	3.73	2.15	2.75
Number of IPRs granted (per Rs.10 Cr spent)	0.34	0.48	0.18
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.24	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.34	0	0.55
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0.24	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.08	0.01	0.02
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	12.35	6.39	7.66
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	8.25	4.19	2.38

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	2.22	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	20	18.18	13.33
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	64.45	97.72	126.65
Number of national collaborative projects executed with industry (per 100 scientific staff)	2.22	2.27	4.44
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	28.89	38.64	71.11
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	87.43	106.54	181.21
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	36	40	41
Percentage of organisation's budget spent on R&D and S&T	79.68	85.35	71.92
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	6.82	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	51.11	31.82	28.89
Percentage of women scientists and researchers to the total scientific and research staff	55.56	40.91	33.33
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.90	0.09	0.26
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated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विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

Agharkar Research Institute

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: Research in Life Sciences

Location	Pune, Maharashtra
Areas of Research: Basic and Applied Biology	
Type of R&D performed	Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	138	132	129
Staff engaged in R&D	38	36	35
Total Budget of the institution (Rs. Crores)	32.25	49.65	38.2

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	147.37	116.67	111.43
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	15.79	13.89	14.29
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	10.54	12.08	9.16
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0.2	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-2.63	-5.56	-2.86
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	13.16	19.44	20
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	13.16	13.89	14.29
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	184.21	155.56	205.71
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	1055.26	1719.44	1751.43
Percentage of publications in top 10% journals	7.14	7.14	5.56
Number of IPRs filed (per Rs.10 Cr spent)	0.62	0	1.05
Number of IPRs granted (per Rs.10 Cr spent)	0.31	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	3.41	0.2	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.11	0.08	0.1
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.92	1.12	1.79
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.11	0.15	0.19
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	7.89	5.56	5.71
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	81.59	50	68.56
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	52.63	36.11	42.86
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	60.49	72.59	101.32
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	27.53	27.27	27.13
Percentage of organisation's budget spent on R&D and S&T	78	76	80
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	21.05	13.89	22.86
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	50	47	60
Percentage of women scientists and researchers to the total scientific and research staff	45	42	49
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.1	0.1	0.1
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Aryabhatta Research Institute of Observational Sciences

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: The institute is a center of excellence for research in Astronomy, Astrophysics and Atmospheric Sciences. It builds and operates state-of-the-art observational facilities to carry out research in front-line areas. It has established India's largest 3.6m aperture optical telescope at Devasthal as National Facility. It has established a very high frequency Radar, an international class facility to study climate action in stratosphere and troposphere of earth. It builds-up knowledge base for studying effects of anthropogenic and natural activities on the air-quality and regional climate change. It is making accessible the advanced observational instruments to the students and researchers of the country. It has strong collaborations with national, international institutions and industries to establish Research and Development Facilities. It has cutting-edge technological expertise in the country in the areas of opto-mechanical, electronics and control software.

Location Nainital, Uttarakhand

Areas of Research: Astronomy; Astrophysics; Atmospheric Sciences

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	134	135	134
Staff engaged in R&D	75	78	83
Total Budget of the institution (Rs. Crores)	27.28	20.98	24.96

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	22.67	21.79	20.48
Number of projects executed (per 100 scientific staff)	26.67	24.36	22.89
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	214.67	208.97	196.39
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	37.02	38.61	19.23
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.73	0	1.2
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	3.85	6.02
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	5.33	2.56	7.23
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	73.33	65.38	57.83
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	1.2
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	93.33	93.59	112.05
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	1.2
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	846.67	1467.95	1561.45
Percentage of publications in top 10% journals	10	5.48	5.38
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	1.83	0.95	0.8
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.24	0.19	0.09
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	10.67	7.69	9.64
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	69.34	67.95	77.11
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	8	7.69	6.02
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	8.24	10.26	16.87
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	56	58	62
Percentage of organisation's budget spent on R&D and S&T	21.42	13.8	23
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	94.67	57.69	101.2
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	75	72	71
Percentage of women scientists and researchers to the total scientific and research staff	24	24	20
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1	1	1
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	39	14	27
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Birbal Sahni Institute of Palaeosciences

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: Study of past life and climate - the drivers, impacts, and processes to provide models that are different in today's world to understand evolutionary processes and climate with special reference to climate change, palaeo-biodiversity, palaeo-environment, past civilizations in order to increase the credibility of future environmental projections and to provide aid to the hydrocarbon industry. BSIP Vision is to create a Multidisciplinary approach to reconstruct past life and climate using advanced analytical tools in fossil studies, geochemistry, geochronology, archaeobotany, ancient DNA studies, and dating of rocks for the hydrocarbon industry. It's Objectives are- Understanding the origin and evolution of life through time; Understanding climate change in recent and deep geological time; Understanding past civilization and human history; Application of Palaeosciences to exploration programs of oil and coal industry; Public outreach activities-dissemination of scientific knowledge.

Location	Lucknow, Uttar Pradesh
Areas of Research: Earth Sciences	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	165	178	170
Staff engaged in R&D	69	85	84
Total Budget of the institution (Rs. Crores)	33.99	41.29	46.04

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	111.59	96.47	97.62
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	24.64	22.35	21.43
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	6.77	1.94	0.87
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0.24	0.43
Increase in the number of staff engaged in R&D (per 100 scientific staff)	21.74	16.47	-2.38
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	10.14	3.53	4.76
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	33.33	9.41	4.76
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	150.72	122.35	109.52
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	1144.93	1128.24	1457.14
Percentage of publications in top 10% journals	9.62	6.73	8.7
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.03	0.04	0.06
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.37	0.66	0.46
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.9	4.71	4.76
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	50.72	41.17	45.23
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.9	4.71	7.14
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	54.19	38.24	23.75
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	41.8	47.2	48.5
Percentage of organisation's budget spent on R&D and S&T	99	94.31	96.63
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	31.88	10.59	7.14
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	36.2	66.3	60.5
Percentage of women scientists and researchers to the total scientific and research staff	36.2	45.8	45.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	4.03	5.11	7.12
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	14.3	24.13	19.29
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Bose Institute

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: To provide a unique platform for cutting edge interdisciplinary scientific research, both basic and applied, its dissemination among the society and human resource development for a modern India; to organize discourses, demonstration and lectures.

Location	Kolkata, West Bengal
Areas of Research: Basic and Applied Biology	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	498	469	476
Staff engaged in R&D	331	320	327
Total Budget of the institution (Rs. Crores)	111.13	121.54	129.93

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	4.23	2.81	3.36
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0.6	0.63	0.61
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.53	0.49	0.31
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-0.3	-3.44	2.14
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	12.69	15.63	10.7
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	9.06	10.31	6.73
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.6	0	0.31
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	68.28	73.13	86.24
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	850.76	913.44	849.85
Percentage of publications in top 10% journals	9.73	7.69	12.06
Number of IPRs filed (per Rs.10 Cr spent)	0.27	0	0.08
Number of IPRs granted (per Rs.10 Cr spent)	0.09	0	0.08
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.01	0.01
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.38	1.47	1.39
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.01	0.01	0.02
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.91	0.31	0.61
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	21.75	28.12	39.45
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.3	0.31	0.31
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	23.41	25.88	37.88
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0.63	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	66.26	67.43	70.33
Percentage of organisation's budget spent on R&D and S&T	17.47	9.45	9.82
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.81	3.44	2.75
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	85	89	89
Percentage of women scientists and researchers to the total scientific and research staff	41.82	44.27	43.12
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.75	0.73	0.19
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	100	100	100
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Centre for Nano and Soft Matter Sciences

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: The Centre for Nano and Soft Matter Sciences (CeNS) is an autonomous research institute under Department of Science and Technology (DST), Government of India. The Centre is engaged in nano and soft materials research at all relevant length scales. Specifically, the current activities are focused on a variety of metal and semiconductor nanostructures, 2D materials, quantum dots, liquid crystals, gels, membranes and hybrid materials. It has close interactions with many Institutions and Industry, in India and abroad. Nanotechnology being the focus, the research is interdisciplinary with nano connecting different areas of science. CeNS exercises an open minded approach to R&D with a high emphasis on IP generation and technology realization. The in-house inventions are taken towards realizing flexible, ergonomic futuristic technology for serving the society at large.

Location Bengaluru, Karnataka

Areas of Research: Physical Sciences

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	110	122	98
Staff engaged in R&D	69	73	58
Total Budget of the institution (Rs. Crores)	11.6	8.6	13.5

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	7.25	2.74	1.72
Number of projects executed (per 100 scientific staff)	13.04	10.96	24.14
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	24.64	41.1	74.14
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	314.66	5616.28	2203.7
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	19.83	19.77	11.85
Increase in the number of staff engaged in R&D (per 100 scientific staff)	86.96	5.48	-25.86
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	4.35	4.11	8.62
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	46.38	54.79	55.17
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	1.72
Number of publications in quality peer reviewed journals (per 100 scientific staff)	152.17	193.15	275.86
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	3.45
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	372.46	536.99	813.79
Percentage of publications in top 10% journals	8.57	10.64	11.25
Number of IPRs filed (per Rs.10 Cr spent)	6.03	4.65	2.96
Number of IPRs granted (per Rs.10 Cr spent)	0	1.16	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	1.16	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	2.33	0.74
Number of new services/products introduced (per Rs.10 Cr spent)	1.72	1.16	0.74
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.48	0.43	0.09
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	11.01	0.56	3.59
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	1.43	1.21
Number of international collaborative projects executed with industry (per 100 scientific staff)	1.45	1.37	1.72
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.9	1.37	1.72
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	68.11	78.09	101.74
Number of national collaborative projects executed with industry (per 100 scientific staff)	4.35	4.11	5.17

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.9	2.74	5.17
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	71.23	92.86	130.12
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	62.7	59.8	59.2
Percentage of organisation's budget spent on R&D and S&T	72.05	62.38	86.05
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	5.8	4.11	5.17
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	85.5	86.3	82.7
Percentage of women scientists and researchers to the total scientific and research staff	33.3	41.1	37.9
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.5	0.5	0.5
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Indian Association for the Cultivation of Science

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: Strives to infuse the spirit of scientific pursuit among the general populace by disseminating scientific knowledge through pedagogy; Endeavors to educate and train the humankind to inspire and empower them to erase the fetters of ignorance, to transcend the boundaries and trappings of mundane and mediocrity, to attain the heights of scientific creativity and aesthetics, to push the envelope of scientific wisdom, and ultimately to overcome the global challenges through scientific innovations; Seeks to serve as the incubator and the quintessential abode for breeding, identifying, nurturing, and grooming young researchers by enriching their ken through advanced, topical, and persistently evolving pedagogical approaches and by providing them hands on training with state of the art scientific tools and techniques; Aims to build a research education and training environment which is one of its kind that provides a unique platform where a researcher can pursue his/her dreams and aspirations in core sciences and also in emergent interdisciplinary areas; Aspires to develop a teaching program with an unwavering commitment to excellence to educate, inform and train at multiple levels so that the naïve can metamorphose to individuals and teams who can lead by example, who can don the robes of connoisseurs with élan, who can shoulder the responsibilities of confronting formidable challenges, who are injected with the entrepreneurial fervor, who can join hands to overcome obstacles or who can emerge as architects of destiny.

Location	Kolkata, West Bengal
Areas of Research: Interdisciplinary Science	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	779	674	664
Staff engaged in R&D	595	509	510
Total Budget of the institution (Rs. Crores)	100.24	118.54	117.03

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	2.95	0.39
Number of projects executed (per 100 scientific staff)	16.97	19.06	19.22
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	2.52	3.54	4.51
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	19.95	14.76	18.8
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.8	0.59	0.43
Increase in the number of staff engaged in R&D (per 100 scientific staff)	5.38	-16.9	0.2
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	8.24	16.9	19.61
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	Yes
Number of interns trained (per 100 scientific staff)	7.06	10.81	9.02
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.34	0.2	0.39
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0.2
Number of publications in quality peer reviewed journals (per 100 scientific staff)	81.34	100.2	96.08
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	896.64	1056.58	1100.39
Percentage of publications in top 10% journals	9.09	7.06	8.37
Number of IPRs filed (per Rs.10 Cr spent)	1	0.59	0.6
Number of IPRs granted (per Rs.10 Cr spent)	0.1	0	0.26
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0.08	0.17
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.16	0.16	0.28
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	4.15	2.97	2.14
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.14	0.09	0.12
Number of international collaborative projects executed with industry (per 100 scientific staff)	0.17	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.18	2.16	1.37
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	17.64	22.39	24.32
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.34	1.77	1.76

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.5	0.59	0.78
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	2.46	7.52	18.74
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0.67	0.79	0.78
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	76.3	75.5	76.8
Percentage of organisation's budget spent on R&D and S&T	14.5	24.03	7.58
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	4.54	8.84	7.84
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	92	92	91
Percentage of women scientists and researchers to the total scientific and research staff	27	28	28
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1.02	2.1	1.1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Indian Institute of Astrophysics

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: To conduct, guide and promote research in all branches of Astrophysics and allied topics; to establish, operate and maintain suitably located astrophysical observatories, laboratories, workshops and/or units to assist scientific research in Astrophysics; to record, collect, scrutinize, publish and supply astrophysical data; to undertake the design, development, and construction of instruments for research work in Astrophysics; to sponsor expeditions in and outside India for obtaining vital astronomical observations of phenomena related to the fields of research pursued at the Institute; to collaborate and cooperate with scientists and organisations, national and international, actively engaged in research in astrophysics and allied areas, and development of facilities for astrophysics; to publish scientific papers, bulletins/journals, train and disseminate information in research areas pursued at the Institute through lectures, workshops, seminars and symposia; teaching and popularization of science and the scientific temper.

Location Bengaluru, Karnataka

Areas of Research: Physical Sciences

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	343	324	303
Staff engaged in R&D	148	143	136
Total Budget of the institution (Rs. Crores)	57.97	69.75	69.18

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	6.08	9.79	10.29
Number of projects executed (per 100 scientific staff)	8.78	12.59	15.44
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	93.92	97.9	95.59
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	10.35	7.17	10.12
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.69	1.15	1.3
Increase in the number of staff engaged in R&D (per 100 scientific staff)	12.16	-3.5	-5.15
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	6.76	6.99	15.44
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	64.19	68.53	72.06
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0.74
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	88.51	101.4	102.21
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	739.86	1150.35	1080.15
Percentage of publications in top 10% journals	3.82	1.38	5.76
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.35	0.14	0.14
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.01	0.07
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	7.73	3.85	10.45
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0.68	0.7	0.74
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	4.05	6.29	9.56
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	42.57	60.84	60.29
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.68	1.4	1.47
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	25.49	24.56	23.34
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	8.11	9.79	11.03
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	No	No	No
Has the strategy worked towards solving these social or economic problems?	No	No	No
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	43.15	44.14	44.88
Percentage of organisation's budget spent on R&D and S&T	20	15	13.5
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	No	No	No
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	4.73	2.8	8.82
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	71.62	72.73	69.12
Percentage of women scientists and researchers to the total scientific and research staff	29.05	30.07	34.56
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	5	4	4
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	75	75	75
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Indian Institute of Geomagnetism

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: To Promote, guide and conduct research in all branches of Geomagnetism. To build infrastructural support (using state-of-the-art technology) for acquisition of high quality data, leading to frontline research. To maintain / modernize magnetic observatory network of India and establish new observatories and facilities at existing centers for other observations related to geomagnetism and allied fields. To attract, motivate and train young talent to undertake research in geomagnetism.

Location Mumbai, Maharashtra

Areas of Research: Earth Sciences

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	203	210	195
Staff engaged in R&D	88	91	79
Total Budget of the institution (Rs. Crores)	37.7	44.04	49.34

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5.68	5.49	6.33
Number of projects executed (per 100 scientific staff)	15.91	17.58	18.99
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	81.82	104.4	178.48
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.27	0.23	0.41
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.55	3.3	-15.19
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	4.55	3.3	13.92
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	89.77	104.4	88.61
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	92.05	84.62	115.19
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	628.41	553.85	625.32
Percentage of publications in top 10% journals	1.23	3.9	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.27	0.45	0.2
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0	0.01
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0	0.06
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	2.2	2.53
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	31.82	39.56	51.89
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	43.03	25.64	36.73
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	0	0	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	43.3	43.3	40.5
Percentage of organisation's budget spent on R&D and S&T	14.1	25.4	19.5
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.41	3.3	2.53
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	70.5	70.3	64.6
Percentage of women scientists and researchers to the total scientific and research staff	31.8	30.8	34.2
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.04	0.01	0.02
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	2	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Institute of Nano Science and Technology

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: The mandate of INST is to conduct cutting edge research in the area of nanoscience and establish itself as a world class institute through manpower development (PhD and trainee program), publications

Location	Mohali, Punjab
Areas of Research: Chemical Sciences	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	89	76	92
Staff engaged in R&D	83	62	73
Total Budget of the institution (Rs. Crores)	66.26	67.19	107.09

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.41	4.84	8.11
Number of projects executed (per 100 scientific staff)	25.3	45.16	27.03
Beneficiaries of lab's programmes	Industry	Industry	Industry
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	37.35	25.81	36.49
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0.15	0.3	0.19
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.81	0.89	0.56
Increase in the number of staff engaged in R&D (per 100 scientific staff)	9.64	-33.87	14.86
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	12.16
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	Yes	Yes
Number of interns trained (per 100 scientific staff)	21.69	32.26	28.38
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	95.18	133.87	145.95
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	865.06	1561.29	1690.54
Percentage of publications in top 10% journals	8.86	9.64	8.33
Number of IPRs filed (per Rs.10 Cr spent)	0.45	0.89	0.47
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.03	0.03	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.03	0.03	0.02
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	3.29	0.7	0.37
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.41	4.84	1.35
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	15.67	20.96	37.84
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.61	6.45	1.35
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	54.57	88.69	75.02
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	92.86	82.29	80.2
Percentage of organisation's budget spent on R&D and S&T	55.25	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	92.86	82.29	80.2
Percentage of women scientists and researchers to the total scientific and research staff	39	39	39
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

International Advanced Research Centre for Powder Metallurgy and New Materials

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) is an Autonomous Research and Development Centre of Department of Science and Technology (DST), Government of India with main campus at Hyderabad and with operations in Chennai and Gurgaon. ARCI's mandate is - Development of High Performance Materials and Processes for Niche Markets; Demonstration of Technologies at Prototype / pilot scale - Transfer of Technology to Industry; Developing technological solutions for several industrial and other sectors; Human resource development in the area of advanced materials and associated processes

Location Hyderabad, Telangana

Areas of Research: Chemical Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	326	316	309
Staff engaged in R&D	203	194	189
Total Budget of the institution (Rs. Crores)	53.27	53.21	52.01

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	9.85	12.89	13.23
Number of projects executed (per 100 scientific staff)	28.57	30.93	33.33
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	11.33	9.28	6.35
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	26.28	54.5	76.91
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.56	0.75	0.96
Increase in the number of staff engaged in R&D (per 100 scientific staff)	36.95	-4.64	-2.65
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0.49	0	3.7
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	65.52	65.98	72.49
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.52	0.53
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	48.77	60.82	74.07
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	2.46	4.64	8.99
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	369.46	431.44	550.79
Percentage of publications in top 10% journals	11.11	4.24	10.71
Number of IPRs filed (per Rs.10 Cr spent)	2.44	1.5	2.88
Number of IPRs granted (per Rs.10 Cr spent)	2.25	1.88	1.73
Number of IPRs licensed out (per Rs.10 Cr spent)	0.19	0.38	0.19
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.19	0.38	0.19
Number of new services/products introduced (per Rs.10 Cr spent)	3.19	5.45	5.58
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.32	0.39	0.48
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.17	0.12	0.24
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	4.64	9.67	5.58
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0.99	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	14.78	12.37	17.99

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	3.94	3.09	6.35
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.96	7.22	4.23
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	23.87	40.72	49.05
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	62.26	61.39	61.16
Percentage of organisation's budget spent on R&D and S&T	66.59	61.5	91.7
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.96	0	3.17
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	77.83	73.71	69.84
Percentage of women scientists and researchers to the total scientific and research staff	30.04	30.41	30.15
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.17	0.11	0.14
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	1.63	11.47	12.9
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Raman Research Institute

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: The mandate of the Institute is research in basic sciences in selected areas of Astronomy and Astrophysics, Light and Matter Physics, Soft Condensed Matter Physics, and Theoretical Physics. The research work includes Physics in Biology, Soft Matter Chemistry, Quantum Information, Computing and Communications.

Location	Bengaluru, Karnataka
Areas of Research: Physical Sciences	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	108	99	82
Staff engaged in R&D	78	76	69
Total Budget of the institution (Rs. Crores)	48.82	51.88	57.9

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	15.38	22.37	23.19
Beneficiaries of lab's programmes	Individuals	Individuals	Individuals
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	26.92	21.05	39.13
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	5.53	6.17	5.35
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.2	0.39	0.17
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	0	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	12.82	15.79	20.29
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	115.38	123.68	133.33
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	1.32	1.45
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	182.05	167.11	182.61
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	1952.56	1961.84	1639.13
Percentage of publications in top 10% journals	7.75	3.94	6.35
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0.41	0	0.35
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.49	1.61	1.16
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.04	0.05	0.03
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	8.97	10.53	8.7
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	93.59	85.52	86.96
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.85	10.53	11.59
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	48.46	43.42	62.82
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	No	No	No
Has the strategy worked towards solving these social or economic problems?	No	No	No
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	72	77	84
Percentage of organisation's budget spent on R&D and S&T	31.38	44.69	42.69
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	61	61	60
Percentage of women scientists and researchers to the total scientific and research staff	19	21	22
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Sree Chitra Tirunal Institute for Medical Sciences and Technology

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: Vision, Mission and Key objectives- Our Mission is to Promote research and development in biomedical engineering and technology; Deliver high-quality patient care in selected specialties and subspecialties; Develop innovative postgraduate training programs in advanced medical specialties and biomedical engineering and technology ; Participate in public health reforms through research, training, and interventions. Our Vision is to become a Global Leader in Medical Devices Development, High-Quality Patient Care, and Health Sciences Studies

Location Thiruvananthapuram, Kerala

Areas of Research: Basic and Applied Biology

Type of R&D performed Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	187	231	210
Staff engaged in R&D	384	420	377
Total Budget of the institution (Rs. Crores)	253.36	284.19	269.51

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.34	1.9	0.53
Number of projects executed (per 100 scientific staff)	39.32	40.24	44.03
Beneficiaries of lab's programmes	Individuals, Industry	Individuals, Industry	Individuals, Industry
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	2.6	0.95	2.39
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	1.82	4.05	11.41
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	52.65	10.1	39.7
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.18	0.77	0.82
Increase in the number of staff engaged in R&D (per 100 scientific staff)	2.6	4.05	0.8
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.24	0.39	0.59
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0.04	0.07
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0.63	1.48	1.45
Number of trainings imparted (per 100 scientific staff)	0	0	0
Number of skill development programmes conducted (per 100 scientific staff)	7.55	4.76	5.57
Number of permanent scientists deputed to provide training (per 100 scientific staff)	0	0	1.06
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	53.39	43.81	61.54
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	165.36	177.62	268.17
Number of national and international recognitions received by the lab (per 100 scientific staff)	0.26	0.24	0.27
Number of reports leading to designs and products (per 100 scientific staff)	7.55	13.33	13.79
Number of IPRs filed (per Rs.10 Cr spent)	1.38	0.84	1.63
Number of IPRs granted (per Rs.10 Cr spent)	0.32	0.11	0.85
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.36	0.35	0.07
Number of new services/products introduced (per Rs.10 Cr spent)	0.32	0.07	0.45
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	5.06	4.4	4.53
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.11	0.72	0.78
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0.48	0.53
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	10.94	12.38	15.91

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.3	0.71	0.53
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	2.14	0.53
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	13.57	15.18	14.81
Percentage of organisation's budget spent on R&D and S&T	14	14	14
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	29.55	37.67	30.28
Percentage of women scientists and researchers to the total scientific and research staff	29.55	27.4	27.46
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	80	80	80
Does the lab have incentives in place to promote talent?	No	No	No

Qualitative questions have not been included here and can be found in the questionnaire (A.X)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Wadia Institute of Himalayan Geology

Ministry/Department/Organisation: Department of Science and Technology

Mandate of the institution: The Wadia Institute of Himalayan Geology (WIHG) at Dehradun is an autonomous institute of Department of Science & Technology (DST), GoI, which came into being in 1968. It has been pursuing basic and applied researches to unravel the orogeny of the majestic Himalaya for improved understanding on its Sciences (geodynamics, seismogenesis, climate-tectonic interactions, evolution and extinction of life) and providing implications to Society (natural hazards due to earthquakes, landslides, floods etc.); natural resources (glaciers, river and spring waters, geothermal, hydrocarbons, minerals and precious ores); and anthropogenic influence etc. towards sustainable development and secured living in the Himalaya and adjoining regions.

Location Dehradhun, Uttarakhand

Areas of Research: Earth Sciences

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	192	190	180
Staff engaged in R&D	92	93	79
Total Budget of the institution (Rs. Crores)	37.41	34.16	38.62

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	11.96	4.3	2.53
Beneficiaries of lab's programmes	Government Departments	Government Departments	Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	13.04	3.23	13.92
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	836.67	1225.7	341.02
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.27	0.29	0.26
Increase in the number of staff engaged in R&D (per 100 scientific staff)	6.52	-5.38	-11.39
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	10.87	6.45	15.19
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	125	134.41	139.24
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	105.43	80.65	120.25
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	551.09	473.12	636.71
Percentage of publications in top 10% journals	9.28	2.67	8.42
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.22	0	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.85	1.14	0.71
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	17.39	17.2	29.11
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	1.27

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	30.75	25.54	57.51
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	48	49	44
Percentage of organisation's budget spent on R&D and S&T	95	95	95
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	60	65	65
Percentage of women scientists and researchers to the total scientific and research staff	15	20	20
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	2	3	3
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

INDIAN COUNCIL OF AGRICULTURAL RESEARCH GOVERNMENT OF INDIA

ICAR-Central Agroforestry Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Develop sustainable agroforestry practices for farms, marginal land and wastelands in different agroclimatic zones of India; Coordinate network research for identifying agroforestry technologies for inter-region; Training in agroforestry research for ecosystem analysis; Transfer of agroforestry technology in various agro climatic zones.

Location Jhansi, Uttar Pradesh

Areas of Research: Natural Resource Management

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	55	54	54
Staff engaged in R&D	30	29	37
Total Budget of the institution (Rs. Crores)	11.19	11.96	13.52

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	13.33	17.24	2.7
Number of projects executed (per 100 scientific staff)	83.33	93.1	62.16
Beneficiaries of lab's programmes	Industry, NGOs, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	16.67	17.24	16.22
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	421.81	1275.08	262.57
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0.74
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	0	21.62
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	6.67	6.9	8.11
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	56.67	24.14	21.62
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	16.67	24.14	8.11
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	50	58.62	64.86
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	1.67	0
Number of IPRs granted (per Rs.10 Cr spent)	0	1.67	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.89	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	3.57	4.18	0.74
Number of new services/products introduced (per Rs.10 Cr spent)	0	0.84	0.74
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.82	0.02	0.03
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.48	0.69	0.8
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	3.33	3.45	2.7
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.33	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	24.79	10.34	8.11
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	54.5	53.7	68.5
Percentage of organisation's budget spent on R&D and S&T	39.05	26.87	41.85
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	6.67	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	3.3	6.9	10.8
Percentage of women scientists and researchers to the total scientific and research staff	0	0	2.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.09	0.11	0.03
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	6	8	7
Does the lab have incentives in place to promote talent?	No	No	No

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Arid Zone Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Undertaking basic and applied research on sustainable farming systems in the arid ecosystem Act as repository of information on the state of natural resources and desertification processes ; Developing livestock-based farming systems and range management practices for the chronically drought-affected areas; Generating and transferring location-specific technologies

Location Jodhpur, Rajasthan

Areas of Research: Natural Resource Management

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	490	474	446
Staff engaged in R&D	119	117	118
Total Budget of the institution (Rs. Crores)	112.16	114.99	117.26

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	6.72	5.98	9.32
Number of projects executed (per 100 scientific staff)	72.27	71.79	67.8
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	6.72	5.98	5.93
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	26.48	18.7	12.71
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.27	0.7	0.09
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-6.72	-1.71	0.85
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	44.54	43.59	39.83
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	266.39	272.65	287.29
Percentage of publications in top 10% journals	5.66	3.92	2.13
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0.62	0.35	0.68
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.09	0.09	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.09	0.09	0.09
Number of new services/products introduced (per Rs.10 Cr spent)	0.71	0.61	0.43
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.01	0.01
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.24	0.44	0.38
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.52	2.56	2.54
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	5.04	5.13	0.85

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	6.72	11.97	11.02
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	16.03	20.72	18.64
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	1.68	3.42	3.39
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	24.3	24.7	26.5
Percentage of organisation's budget spent on R&D and S&T	2.41	5.54	4.86
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	46.2	44.4	53.4
Percentage of women scientists and researchers to the total scientific and research staff	12.6	13.7	15.3
Are the facilities at the lab differently-abled friendly?	No	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.13	0.12	0.17
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	19.7	10.1	16.1
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Avian Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: The institute envisions enhancing the productivity and profitability of diversified poultry species for sustainable poultry farming for household income and nutritional security, and employment generation in the country. Towards its attainment, the institute is implementing its R&D agenda with a mission to develop and popularize appropriate poultry production and processing technologies in respect of diversified avian species for additional employment generation oppurtunities, enhanced profitability and to provide the necessary research, education, training and technology transfer support in all areas of Poultry Science.

Location Bareilly, Uttar Pradesh

Areas of Research: Animal Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	99	89	78
Staff engaged in R&D	47	46	37
Total Budget of the institution (Rs. Crores)	35.07	37.65	40.46

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	14.89	13.04	18.92
Number of projects executed (per 100 scientific staff)	93.62	97.83	102.7
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	12.77	10.87	5.41
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	95.52	95.35	89.22
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.57	0.27	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	12.77	-2.17	-24.32
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	1.43	1.59	1.24
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.29	0.53	0.74
Number of new hires by the current incubatees (per Rs.10 Cr spent)	2.57	5.58	7.91
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	31.91	41.3	21.62
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	110.64	76.09	102.7
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	72.34	54.35	110.81
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	2.13	2.17	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	248.94	269.57	297.3
Percentage of publications in top 10% journals	0	0	4.88
Number of IPRs filed (per Rs.10 Cr spent)	1.14	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.25
Number of IPRs licensed out (per Rs.10 Cr spent)	0.29	0.53	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.57	0.8	0.25
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.29	0.53	0
Number of new services/products introduced (per Rs.10 Cr spent)	1.43	1.06	0.49
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.06	0.05	0.03
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.17	0.27	0.09
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.01	0	0.02
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	4.25	0	5.41

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	25.53	23.91	29.73
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	31.21	26.02	102.6
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	47.47	51.69	47.44
Percentage of organisation's budget spent on R&D and S&T	14.11	11.27	13.26
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	6.38	2.17	8.11
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	6.38	6.52	8.11
Percentage of women scientists and researchers to the total scientific and research staff	4.26	6.52	8.11
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.22	0.24	0.12
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	19	21.7	20
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Coastal Agricultural Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Mission of the Institute: The Institute was started with a mission to achieve the "introduction and improvement of all potential crops and various species / breeds of livestock and scientific exploitation of various aquatic resources for improving fish production". Mandate of the Institute: Researches on field and horticultural crops, livestock, and fisheries relevant to natural resource base of coastal India for sustainable productivity; Develop climate resilient land use and farming systems for improved and sustainable livelihood through coastal agriculture; Act as a centre of agro-eco-tourism.

Location Ela, Old Goa, Goa

Areas of Research: Natural Resource Management

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	118	111	115
Staff engaged in R&D	47	40	48
Total Budget of the institution (Rs. Crores)	14.3	13.51	14.11

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.13	2.5	4.17
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	31.91	47.5	22.92
Number of projects executed (per 100 scientific staff)	102.13	107.5	79.17
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	331.91	495	406.25
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	667.83	1572.91	1086.46
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.4	0.74	2.83
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.26	18	16.67
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	2.13	2.5	4.17
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	36.17	17.5	33.33
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	38.3	47.5	41.67
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	2.13	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	151.06	102.5	120.83
Percentage of publications in top 10% journals	5.56	15.79	0
Number of IPRs filed (per Rs.10 Cr spent)	2.1	5.18	1.42
Number of IPRs granted (per Rs.10 Cr spent)	0.7	5.18	0.71
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	2.1	0	1.42
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	9.79	11.1	4.96
Number of new services/products introduced (per Rs.10 Cr spent)	4.9	2.22	0.71
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.8	0.85	1.21
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.26	0.69	0.81
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.01	0.01	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.13	2.5	2.08
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	6.38	5	2.08
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	25.53	32.5	29.17
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	32.83	27.14	29.41
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	39.8	36	41.7
Percentage of organisation's budget spent on R&D and S&T	51	57	57
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	2.08
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	85	83	83
Percentage of women scientists and researchers to the total scientific and research staff	38	38	35
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.3	0.4	0.3
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	23.8	9.52	12.5
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Inland Fisheries Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research for sustainable management of inland open water resources; Develop protocols for productivity enhancement in reservoirs, wetlands & aquatic ecosystem health management

Location Kolkata, West Bengal

Areas of Research: Natural Resource Management

Type of R&D performed Basic R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	216	213	217
Staff engaged in R&D	125	138	160
Total Budget of the institution (Rs. Crores)	34.1	45.41	41.81

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	3.2	2.9	2.5
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	4.8	4.35	3.75
Number of projects executed (per 100 scientific staff)	29.6	31.88	26.88
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	3.2	4.35	3.13
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	47.2	48.55	26.88
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	380.06	1196.43	1263.09
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.76	1.54	1.2
Increase in the number of staff engaged in R&D (per 100 scientific staff)	11.2	9.42	13.75
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	3.2	5.07	1.25
Number of trainings imparted (per 100 scientific staff)	7.2	23.19	4.38
Number of skill development programmes conducted (per 100 scientific staff)	19.2	24.64	8.75
Number of permanent scientists deputed to provide training (per 100 scientific staff)	7.2	9.42	7.5
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.72	0.63
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	41.6	58.7	45
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	4	5.8	2.5
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	140.8	96.38	171.88
Percentage of publications in top 10% journals	3.85	3.7	6.94
Number of technology documents prepared in the last three years (per 100 scientific staff)	1.6	0.72	0.63
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	1.45	1.25
Number of reports leading to designs and products (per 100 scientific staff)	2.4	0	0
Number of IPRs filed (per Rs.10 Cr spent)	1.17	1.1	0.24
Number of IPRs granted (per Rs.10 Cr spent)	0.88	0.88	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0.88	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	3.23	1.32	2.63
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.88	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	1.76	0.88	0.24
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.23	0.14	0.29
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.04	0.01	0.04
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.55	1.67	1.09
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0.17	0.05

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0.63
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	4.8	7.25	9.37
Number of national collaborative projects executed with industry (per 100 scientific staff)	2.4	4.35	3.13
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	7.2	7.25	6.25
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	4.43	7.62	1.88
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	3.2	2.17	1.25
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	No	No	No
Percentage of permanent scientists and contractual researchers	57.87	64.79	73.73
Percentage of organisation's budget spent on R&D and S&T	12.26	17.05	15.17
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	13.6	6.52	3.13
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	41.6	39.1	33.1
Percentage of women scientists and researchers to the total scientific and research staff	20.8	21	17.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.21	0.08	0.18
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	27.9	30.3	37.6
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Institute for Arid Horticulture

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic, strategic and applied research to enhance sustainable productivity, quality and utilization of horticultural crops of arid and semi-arid regions; Repository of genetic resources and scientific information on horticultural crops of arid and semi arid region; Transfer of technology, capacity building and impact assessment of technologies; Coordinate research and validation of technologies on fruit crops of arid and semi-arid regions.

Location Bikaner, Rajasthan

Areas of Research: Horticultural Sciences

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	117	117	114
Staff engaged in R&D	43	48	45
Total Budget of the institution (Rs. Crores)	18.76	18.5	20.16

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.33	2.08	0
Number of projects executed (per 100 scientific staff)	100	106.25	95.56
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	34.88	25	35.56
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	17.06	21.08	17.36
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.53	1.08	2.48
Increase in the number of staff engaged in R&D (per 100 scientific staff)	35	10.42	7
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	2.33	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	4.44
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	44.19	16.67	24.44
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	15.56
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	37.21	91.67	117.78
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0.54	3.97
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0.99
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.07	0.54	2.48
Number of new services/products introduced (per Rs.10 Cr spent)	2.13	3.24	5.95
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.06	1.17	0.18
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	2.32	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	4.17	4.44
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	44.19	25	22.41
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	36.75	41.02	39.47
Percentage of organisation's budget spent on R&D and S&T	24.51	18.3	27.16
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	4.44
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	60.46	65.95	68.18
Percentage of women scientists and researchers to the total scientific and research staff	4.65	8.3	11.36
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.49	0.63	0.44
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	20	6.66	10.71
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Institute for Research on Cattle

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research on productivity and production enhancement of cattle including Indigenous cattle. Dissemination of scientific information and technology for cattle production management.

Location	Meerut, Uttar Pradesh
Areas of Research: Animal Sciences	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	66	64	62
Staff engaged in R&D	37	35	33
Total Budget of the institution (Rs. Crores)	9.78	14.38	13.61

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	12.12
Number of projects executed (per 100 scientific staff)	102.7	74.29	69.7
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0	0	6.06
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	355.83	123.09	151.36
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0.73
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	0	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	16.22	42.86	6.06
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	67.57	65.71	30.3
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	94.59	194.29	175.76
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	1.02	1.39	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.73
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	7.16	4.87	5.14
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.13	0.1	0.06
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.2	0.1	0.04
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	3.03

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	16.89	10.11	3.79
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	56	54	53
Percentage of organisation's budget spent on R&D and S&T	3.2	5.1	5.2
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.7	2.86	3.03
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	45	45.7	42.4
Percentage of women scientists and researchers to the total scientific and research staff	21.6	20	18.1
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.35	0.28	0.54
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	12	56	34.7
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Institute for Research on Cotton Technology

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and Strategic Research on Processing Cotton and its Agro-Residues, Development of Value Added Products and Quality Assessment Skill Development and Business Incubation Services and Function as Referral Laboratory for Cotton Fibres

Location	Mumbai, Maharashtra
Areas of Research: Agricultural Engineering	
Type of R&D performed	Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	171	170	170
Staff engaged in R&D	33	33	40
Total Budget of the institution (Rs. Crores)	44.15	26.33	26.72

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	36.36	33.33	20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	24.24	21.21	20
Number of projects executed (per 100 scientific staff)	63.64	75.76	57.5
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	15.15	18.18	22.5
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	33.33	48.48	47.5
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	124.8	287.12	121.63
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.45	1.52	0.75
Increase in the number of staff engaged in R&D (per 100 scientific staff)	6.06	0	17.5
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.23	1.14	5.24
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.23	0.38	0.75
Number of new hires by the current incubatees (per Rs.10 Cr spent)	5.66	15.19	18.71
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	6.06	2.5
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of trainings imparted (per 100 scientific staff)	96.97	127.27	52.5
Number of skill development programmes conducted (per 100 scientific staff)	90.91	121.21	50
Number of permanent scientists deputed to provide training (per 100 scientific staff)	6.06	3.03	2.5
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	66.67	36.36	55
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	24.24	27.27	15
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	224.24	296.97	197.5
Percentage of publications in top 10% journals	4.55	0	13.64
Number of technology documents prepared in the last three years (per 100 scientific staff)	6.06	21.21	27.5
Number of national and international recognitions received by the lab (per 100 scientific staff)	3.03	3.03	2.5
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0.38	0
Number of IPRs granted (per Rs.10 Cr spent)	0.45	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.23	0.76	1.87
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.13	1.52	1.5
Number of new services/products introduced (per Rs.10 Cr spent)	1.13	0.38	4.12
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.09	0.17	0.14
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.27	0.51	0.42
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.16	1.32	0.49
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.01	0.02	0.01

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	6.06	9.09	7.5
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	6.06	9.09	7.5
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	37.04	24.24	26.05
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	19.3	19.4	23.5
Percentage of organisation's budget spent on R&D and S&T	99.96	99.97	99.98
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.03	6.06	5
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	39.4	30.3	32.5
Percentage of women scientists and researchers to the total scientific and research staff	18.2	18.2	17.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.19	0.32	0.21
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	42	50	18.5
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Institute for Research on Goats

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To undertake basic and applied research in all disciplines relating to goat production and products technology; To develop, update and standardize area specific package of practices on breeding, feeding, management and prophylactic and curative health cover of goats; To impart National and International Trainings in specialized fields of goat research and development; To transfer technologies for improving milk, meat and fibre production and value addition of goat products; To provide referral and consultancy services on goat production and product technologies.

Location Mathura, Uttar Pradesh

Areas of Research: Animal Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	96	81	65
Staff engaged in R&D	52	46	36
Total Budget of the institution (Rs. Crores)	35.17	38.79	34.9

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	26.92	30.43	38.89
Number of projects executed (per 100 scientific staff)	69.23	86.96	94.44
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, Industry , NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	30.77	28.26	41.67
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	10.31	13.75
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0.26	0.29
Increase in the number of staff engaged in R&D (per 100 scientific staff)	19.23	-13.04	-27.78
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	5.77	15.22	25
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	84.62	97.83	22.22
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	50	78.26	94.44
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	2.17	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	253.85	228.26	416.67
Percentage of publications in top 10% journals	3.85	5.56	2.94
Number of IPRs filed (per Rs.10 Cr spent)	0.28	0.52	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.29
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.26	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.26	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	1.03	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.85	1.03	1.15
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.13	0.11	0.12
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.16	0.14	0.16
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.33	0.45	0.44
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	9.62	2.18	5.55

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	26.92	28.26	36.11
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	40.38	76.15	88.72
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	54.2	56.8	55.4
Percentage of organisation's budget spent on R&D and S&T	7.47	8	8.24
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	76.9	76.1	75
Percentage of women scientists and researchers to the total scientific and research staff	23.1	21.7	25
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.17	0.13	0.09
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	4.5	7.2	5.8
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Institute of Agricultural Engineering

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Research on agricultural mechanization, post-harvest food processing, and energy management in agriculture. Human resource development and capacity building through outreach and training programs; commercialization and utilization of agricultural engineering technologies.

Location Bhopal, Madhya Pradesh

Areas of Research: Agricultural Engineering

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	238	234	215
Staff engaged in R&D	104	108	136
Total Budget of the institution (Rs. Crores)	56.05	66.08	62.05

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	23.08	12.96	12.5
Number of projects executed (per 100 scientific staff)	75	64.81	60.29
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	469.23	585.19	974.26
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1637.11	1307.2	1286.38
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.36	0.76	0.64
Increase in the number of staff engaged in R&D (per 100 scientific staff)	14.42	3.7	20.59
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.89	0.15	0.32
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.89	0.15	0.32
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0.89	0.3	0.16
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0.93	0.74
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	12.5	22.22	14.71
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	24.04	33.33	19.85
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	9.62	13.89	18.38
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	172.12	129.63	67.65
Percentage of publications in top 10% journals	0	2.78	3.7
Number of IPRs filed (per Rs.10 Cr spent)	0.18	0.61	0.16
Number of IPRs granted (per Rs.10 Cr spent)	0.18	0.15	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0.36	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.71	0.45	0.32
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	4.1	2.42	2.58
Number of new services/products introduced (per Rs.10 Cr spent)	6.24	0.61	3.06
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.2	0.01
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.09	0.14	0.21
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.52	0.31	0.43
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0.02	0.07
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0.74
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	3.7	4.41

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.88	3.7	2.21
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	12.45	18.52	11.73
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	43.7	46.2	63.3
Percentage of organisation's budget spent on R&D and S&T	44.42	40.09	29.06
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	60.6	62	67.7
Percentage of women scientists and researchers to the total scientific and research staff	9.6	9.3	8.1
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	1.58	0.97	1.06
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	5.13	4.28	3
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Institute for Women in Agriculture

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Research on gender issues in agriculture and allied fields; Gender-equitable agricultural policies/ programmes and gender-sensitive agricultural-sector responses; Co-ordinate research on Home Science.

Location Kolkata, West Bengal

Areas of Research: Agricultural Education

Type of R&D performed Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	34	42	45
Staff engaged in R&D	14	21	25
Total Budget of the institution (Rs. Crores)	7	17.2	13.52

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	7.14	9.52	8
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	14.29	9.52	12
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	4.76	0
Number of projects executed (per 100 scientific staff)	150	100	92
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	0	0
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	50	47.62	16
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1860	1740.12	1296.6
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.86	1.16	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-57.14	33.33	16
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	92.86	104.76	60
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	92.86	104.76	60
Number of trainings imparted (per 100 scientific staff)	42.86	14.29	8
Number of skill development programmes conducted (per 100 scientific staff)	0	0	0
Number of permanent scientists deputed to provide training (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	50	23.81	28
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	157.14	90.48	72
Percentage of publications in top 10% journals	0	0	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	4.76	8
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0.74
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.01	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.97	0.15	0.16
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.04	0.01	0.01

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	7.14	4.76	4
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	4.76	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	7.14	4.76	4
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	14.29	9.52	4
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	33.33	14.29	23.33
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	41.2	50	55.6
Percentage of organisation's budget spent on R&D and S&T	23.66	9.36	8.54
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	42.9	52.4	52
Percentage of women scientists and researchers to the total scientific and research staff	57.1	57.1	56
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.57	0.25	0.35
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	54	29	24
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Institute of Brackishwater Aquaculture

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To perform species and systems diversification in brackishwater aquaculture; act as repository of information on brackishwater fishery resources with a systematic database; Human resource development, capacity building and skill development through training, education and extension

Location Chennai, Tamil Nadu

Areas of Research: Fisheries

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	183	184	176
Staff engaged in R&D	109	113	110
Total Budget of the institution (Rs. Crores)	50.06	59.15	54.25

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	18.35	12.39	22.73
Number of projects executed (per 100 scientific staff)	30.28	30.09	30.91
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	5.5	7.08	5.45
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	102.28	104.31	286.08
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.4	0.68	0.18
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-2.75	3.54	-2.73
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.6	0.85	0.37
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.4	0.17	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	9.59	10.14	16.04
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	4.59	0.88	5.45
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	0.92	8.85	1.82
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	55.05	37.17	58.18
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	221.1	225.66	286.36
Percentage of publications in top 10% journals	8.33	7.14	9.38
Number of IPRs filed (per Rs.10 Cr spent)	0.4	0.17	0.18
Number of IPRs granted (per Rs.10 Cr spent)	0.2	0.51	0.18
Number of IPRs licensed out (per Rs.10 Cr spent)	0.2	0.17	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.2	0.17	0.18
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.8	1.86	1.66
Number of new services/products introduced (per Rs.10 Cr spent)	2.2	1.52	0.92
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.03	0.04
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.11	0.1	0.12
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.07	0.74	0.85
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.11	0.15	0.16
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.92	0.88	0.91
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	5.5	10.62	9.09

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	1.77	1.82
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	18.35	17.7	18.18
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	7.62	8.58	5.29
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0.88	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	59.6	61.4	62.5
Percentage of organisation's budget spent on R&D and S&T	11.2	11.55	12.14
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0.92	0.88	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	65.1	64.6	61.8
Percentage of women scientists and researchers to the total scientific and research staff	26.6	28.3	27.3
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.26	0.22	0.41
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	19	30	23
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Institute of Freshwater Aquaculture

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research for the development of sustainable culture systems for freshwater finfish and shellfish; Species and systems diversification in freshwater aquaculture; Human resource development through training, education and extension.

Location	Bhubaneswar, Odisha
Areas of Research: Fisheries	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	198	197	185
Staff engaged in R&D	157	162	143
Total Budget of the institution (Rs. Crores)	39.39	46.36	49.55

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	1.23	1.4
Number of projects executed (per 100 scientific staff)	19.11	19.14	25.17
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	15.29	9.26	13.99
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	82	134.6	109.38
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.52	0.65	1.21
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-7.64	3.09	-13.29
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	10.83	7.41	4.9
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	52.23	50.62	61.54
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	38.22	20.37	37.76
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	204.46	131.48	176.22
Percentage of publications in top 10% journals	6.67	6.06	0
Number of IPRs filed (per Rs.10 Cr spent)	0.25	1.51	0.2
Number of IPRs granted (per Rs.10 Cr spent)	1.27	0.65	0.4
Number of IPRs licensed out (per Rs.10 Cr spent)	0.51	0	0.61
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.25	0.22	0.2
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.51	0	0.81
Number of new services/products introduced (per Rs.10 Cr spent)	0	3.02	0.2
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.01	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.07	0.03	0.03
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.44	1.82	1.31
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	1.42	1.81	1.3
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.64	0.62	2.1
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	2.55	0.62	2.8

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	79.29	82.23	77.3
Percentage of organisation's budget spent on R&D and S&T	37.44	44.05	47.75
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.82	1.85	3.5
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	71.34	66.05	66.43
Percentage of women scientists and researchers to the total scientific and research staff	35.03	37.65	32.87
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.13	0.15	0.08
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	16	15	9
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Institute of Fisheries Technology

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research in fishing and processing; Design and develop energy efficient fishing systems for responsible fishing and sustainable management; Development of implements and machinery for fishing and fish processing; and Human resource Development through training, education and extension; to ensure responsible harvesting of fishery resources through eco-friendly, energy efficient and economical means; ensure total utilization of the harvested fish through appropriate processing, value addition, packaging and waste utilization; ensure food safety and nutritional security to the consumer and minimise carbon and water footprint per unit volume; and to ensure equitable benefits to the stakeholders, across the value chain

Location	Kochi, Kerala
Areas of Research: Fisheries	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	283	300	297
Staff engaged in R&D	86	112	102
Total Budget of the institution (Rs. Crores)	39.79	42.62	45.11

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	20.93	17.86	11.76
Number of projects executed (per 100 scientific staff)	45.35	42.86	53.92
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	51.16	37.5	51.96
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	740.89	697.79	701.17
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.51	0.47	1.55
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-4.65	23.21	-9.8
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	1.26	4.22	3.99
Number of incubated startups successfully exited (per Rs.10 Cr spent)	1.26	4.22	4.43
Number of new hires by the current incubatees (per Rs.10 Cr spent)	2.26	10.56	15.96
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	41.86	32.14	70.59
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	45.35	32.14	76.47
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.89	0.98
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	84.88	47.32	66.67
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	9.3	14.29	9.8
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	193.02	245.54	233.33
Percentage of publications in top 10% journals	2.74	0	1.47
Number of IPRs filed (per Rs.10 Cr spent)	0	0.23	1.33
Number of IPRs granted (per Rs.10 Cr spent)	0.75	0.23	0.89
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	3.02	1.41	2.44
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.01	4.93	4.88
Number of new services/products introduced (per Rs.10 Cr spent)	3.77	3.52	4.43
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.22	0.15	0.38
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.16	0.24	0.29
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0.11
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	3.49	2.68	1.96
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	2.33	1.78	3.92

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	2.33	1.79	1.96
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	6.98	6.25	7.84
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	47.04	23.99	33.56
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	30.4	37.3	34.3
Percentage of organisation's budget spent on R&D and S&T	78.04	80.95	80.74
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	82.56	111.61	109.8
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	64	74.1	66.7
Percentage of women scientists and researchers to the total scientific and research staff	41.9	42.9	45.1
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.08	0.11	0.08
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	29.27	59.04	60
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Institute of Post Harvest Engineering and Technology

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Information and Communications Technology (ICT) based surveillance, monitoring of pest population, research and promotion of pest smart IPM technologies for major crops.On-farm validation of IPM technologies, forging linkages with commodity based crop research Institutes, AICRP/ AINP and capacity building.

Location	Ludhiana, Punjab
Areas of Research: Agricultural Engineering	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	104	118	121
Staff engaged in R&D	62	74	74
Total Budget of the institution (Rs. Crores)	39.95	47.81	47.13

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	30.65	22.97	22.97
Number of projects executed (per 100 scientific staff)	80.65	62.16	44.59
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	51.61	55.41	41.89
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	186.23	191.8	38.19
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.75	0.63	0.42
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-16.13	16.22	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.5	0.21	1.06
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.5	0.21	1.06
Number of new hires by the current incubatees (per Rs.10 Cr spent)	1.5	2.51	1.06
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	11.29	10.81	37.84
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	620.97	582.43	243.24
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	56.45	37.84	47.3
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	29.03	20.27	21.62
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	535.48	417.57	379.73
Percentage of publications in top 10% journals	0	3.57	2.86
Number of IPRs filed (per Rs.10 Cr spent)	0	0.42	1.27
Number of IPRs granted (per Rs.10 Cr spent)	0.75	0.63	0.85
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.21	0.42
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.21	0.21
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.5	0.21	1.06
Number of new services/products introduced (per Rs.10 Cr spent)	0.75	0.42	1.06
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.13	0.08	0.07
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.46	0.32	0.35
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.13	0.08	0.27
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0.01
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	9.68	5.41	1.35

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	17.74	12.16	5.41
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	13.77	11.44	10.62
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	59.6	62.7	61.2
Percentage of organisation's budget spent on R&D and S&T	79.6	96.73	97.38
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	4.05	4.05
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	82.3	85.1	87.8
Percentage of women scientists and researchers to the total scientific and research staff	45.2	50	55.4
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.07	0.12	0.1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	26.19	26.67	30
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Island Agricultural Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To provide a research base to improve the productivity of agri-horticulture, livestock and fisheries of Andaman & Nicobar and Lakshadweep group of Islands through basic, applied and adaptive research; Conservation, characterization and sustainable utilization of natural resources and harnessing through post harvest and value addition; To standardize technologies for health coverage and bio security of plant, animal and fishery resources; To standardize techniques for capture and culture fisheries including coastal aquaculture; Vulnerability studies of Island ecosystem and adaptive strategies to develop climate resilient agriculture; Transfer of technology, capacity building, policy support and market intelligence to stake holders

Location Port Blair, Andaman and Nicobar Islands

Areas of Research: Horticultural Sciences

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	200	201	204
Staff engaged in R&D	68	73	68
Total Budget of the institution (Rs. Crores)	3.98	6.98	2.64

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5.88	1.37	2.94
Number of projects executed (per 100 scientific staff)	95.59	116.44	144.12
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	13.24	20.55	11.76
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	4761.31	3044.41	7287.88
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	15.08	7.16	11.36
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-2.94	6.85	-7.35
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	11.76	16.44	16.18
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	41.18	68.49	107.35
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	2.74	1.47
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	136.76	131.51	170.59
Percentage of publications in top 10% journals	0	2	6.85
Number of IPRs filed (per Rs.10 Cr spent)	27.64	1.43	0
Number of IPRs granted (per Rs.10 Cr spent)	2.51	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	25.13	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	2.51	1.43	3.79
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	25.13	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	7.54	5.73	7.58
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.22	0.14	0.04
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	14.32	10.4	21.86
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	4.41	9.59	7.35
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	22.06	19.18	20.59
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	17.9	34.25	76.19
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	1.47	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	34	36.31	33.33
Percentage of organisation's budget spent on R&D and S&T	100	19.05	16.72
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	27	29	29
Percentage of women scientists and researchers to the total scientific and research staff	31	33	34
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.25	0.32	0.06
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	20	54.16	17.02
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Plantation Crops Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: ICAR-Central Plantation Crops Research Institute has the mandate to conduct research on coconut, arecanut and cocoa in the following aspects: Collection, conservation, evaluation, and utilization of germplasm; molecular genetics applications in breeding and management of biotic and abiotic stress; evolving technologies for effective use of natural resources and increased input efficiency; development of coconut and arecanut based cropping system and integrated farming system models; development of technologies for integrated management of pests and diseases and surveillance; physiology and biochemistry; climate adaption and crop growth models; post-harvest management and value addition; technology transfer and capacity development; commercialization of technologies, agri-business incubation and entrepreneurship development. Adaptive research on technologies in different areas are conducted under All India Coordinated Research Project on Palms and Cocoa in 30 Centres across the country.

Location Chowki, Kerala

Areas of Research: Horticultural Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	374	360	346
Staff engaged in R&D	85	77	74
Total Budget of the institution (Rs. Crores)	82.21	87.32	83.63

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5.88	6.49	6.76
Number of projects executed (per 100 scientific staff)	38.82	59.74	59.46
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	30.59	58.44	40.54
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	527.67	745.99	579.94
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.22	1.37	1.67
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-1.18	-10.39	-4.05
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.24	0.34	1.08
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.24	0.11	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	3.65	4.24	11.12
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	24.71	46.75	45.95
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	Yes	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	28.24	32.47	39.19
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	3.53	3.9	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	85.88	125.97	197.3
Percentage of publications in top 10% journals	4.17	4	3.45
Number of IPRs filed (per Rs.10 Cr spent)	0.12	0	0.24
Number of IPRs granted (per Rs.10 Cr spent)	0.36	0.23	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0.36	0.11	1.55
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.36	0.23	0.24
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	2.19	1.15	3.23
Number of new services/products introduced (per Rs.10 Cr spent)	0.36	0.34	0.24
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.07	0.01	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.45	0.25	0.28
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.41	1.09	0.5
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.53	2.6	6.76

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.18	5.19	4.05
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	1.18	6.49	6.76
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	14.68	19.63	23.85
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	22.7	21.4	21.4
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	No	No	No
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	20	37.66	40.54
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	63.5	64.9	56.8
Percentage of women scientists and researchers to the total scientific and research staff	41.2	44.2	44.6
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	100	100	100
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	40.25	21.12	15.94
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Marine Fisheries Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Monitor and assess the marine fisheries resources of the Exclusive Economic Zone (EEZ) including the impact of climate and anthropogenic activity and develop sustainable fishery management plans. Basic and strategic research in mariculture to enhance production. Act as a repository of geo-spatial information on marine fishery resources and habitats. Consultancy services; and human resource development through training, education and extension.

Location Ernakulam, Kerala

Areas of Research: Fisheries

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	759	748	739
Staff engaged in R&D	185	194	190
Total Budget of the institution (Rs. Crores)	149.95	159.36	160.7

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	11.89	12.89	10
Number of projects executed (per 100 scientific staff)	38.38	39.18	42.63
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	34.05	36.6	46.84
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	116.71	134.91	174.86
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.13	0.19	0.12
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-7.57	4.64	-2.11
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	1.62	4.12	3.68
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	10.27	17.53	8.42
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	65.95	70.62	87.37
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	5.41	3.09	2.63
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	130.27	173.71	266.84
Percentage of publications in top 10% journals	0.82	2.19	2.41
Number of IPRs filed (per Rs.10 Cr spent)	0.67	0.75	0.44
Number of IPRs granted (per Rs.10 Cr spent)	0.27	0.38	0.12
Number of IPRs licensed out (per Rs.10 Cr spent)	0.4	0.5	0.19
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	5.07	1.88	3.42
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.4	0.5	0.19
Number of new services/products introduced (per Rs.10 Cr spent)	1.67	1.69	0.68
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.06	0.04	0.05
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.06	0.04	0.05
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.58	0.96	1.24
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.06	0.06	0.05
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.54	1.03	1.05
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.79	4.12	10

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.54	1.03	1.05
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	10.74	5.33	8.55
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	24.37	25.94	25.71
Percentage of organisation's budget spent on R&D and S&T	13.72	14.36	14.05
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	41.62	47.94	59.47
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	35.14	30.41	31.05
Percentage of women scientists and researchers to the total scientific and research staff	40.54	39.69	41.58
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.15	0.1	0.1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	27	30	33
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Potato Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To carry out research, education and extension on potato in collaboration with national and international partners for enhancing productivity and proftability, achieving sustainable food and nutrition

Location	Shimla, Himachal Pradesh
Areas of Research: Horticultural Sciences	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	403	421	407
Staff engaged in R&D	95	109	111
Total Budget of the institution (Rs. Crores)	65.42	72.43	73.44

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	9.47	9.17	8.11
Number of projects executed (per 100 scientific staff)	17.89	19.27	18.02
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	82.11	62.39	79.28
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	113.41	184.6	157.14
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.68	0.97	0.41
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-9.47	12.84	1.8
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.46	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.46	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	5.35	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	18.95	15.6	26.13
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	46.32	50.46	31.53
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	3.16	2.75	4.5
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	93.68	166.06	99.1
Percentage of publications in top 10% journals	2.27	0	0
Number of IPRs filed (per Rs.10 Cr spent)	1.22	1.38	1.77
Number of IPRs granted (per Rs.10 Cr spent)	0	0.55	0.41
Number of IPRs licensed out (per Rs.10 Cr spent)	0.46	0	0.27
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.61	0.55	0.68
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.46	0	0.27
Number of new services/products introduced (per Rs.10 Cr spent)	0.46	0	0.27
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.21	1.24	1.38
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.22	0.07	0.1
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.09	0.32	0.38
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0.04
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0.9
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	6.32	5.51	4.51

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.05	0.92	0.9
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	1.05	3.67	1.8
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	30.44	26.2	15.77
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	23.6	25.9	27.3
Percentage of organisation's budget spent on R&D and S&T	6.01	6.37	3.31
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	13.68	13.76	18.92
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	72.6	67	65.8
Percentage of women scientists and researchers to the total scientific and research staff	30.5	29.4	28.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.3	0.27	0.13
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	17.91	31.57	31.57
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Research Institute for Jute and Allied Fibres

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research on improvement of jute and allied fibre crops, biotic and abiotic stresses, yield and quality; Development of economically viable and sustainable production technology, cropping systems and post-harvest technology; Co-ordination and monitoring of applied research on national and regional issues to develop improved varieties and technologies; Dissemination of technologies and capacity building.

Location Barrackpore, West Bengal

Areas of Research: Crop Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	154	161	188
Staff engaged in R&D	64	64	63
Total Budget of the institution (Rs. Crores)	29.31	34.57	35.77

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	6.25	6.25	6.35
Number of projects executed (per 100 scientific staff)	84.38	90.63	87.3
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	3.13	4.69	4.76
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	136.47	119.47	165.78
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-7.81	0	-1.59
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	3.13	3.13	3.17
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	25	29.69	41.27
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	4.69	7.81	7.94
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	125	107.81	125.4
Percentage of publications in top 10% journals	0	5.26	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0.29	1.12
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.84
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.34	0.29	0.28
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	2.39	2.02	1.96
Number of new services/products introduced (per Rs.10 Cr spent)	1.71	1.45	1.4
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.09	0.06	0.12
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.48	0.63	0.34
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	1.56	1.56	3.17

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	4.69	4.69	3.17
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	7.26	8.4	17.69
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	42	40	34
Percentage of organisation's budget spent on R&D and S&T	5.94	5.57	6.01
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.56	1.56	1.59
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	4.69	3.13	1.59
Percentage of women scientists and researchers to the total scientific and research staff	6.25	6.25	6.35
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.18	0.22	0.19
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	16	10	14
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Sheep and Wool Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and applied research on sheep husbandry; Dissemination of technologies for sheep productivity enhancement and management

Location Avikanagar, Rajasthan

Areas of Research: Animal Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	198	205	190
Staff engaged in R&D	73	80	79
Total Budget of the institution (Rs. Crores)	41.86	48.35	47.84

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	13.7	12.5	12.66
Number of projects executed (per 100 scientific staff)	43.84	41.25	50.63
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	1547.95	1178.75	2537.97
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	21.02	15.72	22.16
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0.21
Increase in the number of staff engaged in R&D (per 100 scientific staff)	16.44	8.75	-1.27
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0.42
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	6.85	13.75	11.39
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	6.85	13.75	12.66
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	54.79	43.75	70.89
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	182.19	151.25	173.42
Percentage of publications in top 10% journals	5	5.71	1.79
Number of IPRs filed (per Rs.10 Cr spent)	0.48	0.21	0.42
Number of IPRs granted (per Rs.10 Cr spent)	0.72	0	0.63
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.21	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.43	1.24	1.25
Number of new services/products introduced (per Rs.10 Cr spent)	2.15	0.83	1.05
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.06	0.05	0.05
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.13	0.1	0.11
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	4.11	2.5	2.53

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	9.59	7.29	18.57
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	No	No	No
Percentage of permanent scientists and contractual researchers	36.87	39.02	41.58
Percentage of organisation's budget spent on R&D and S&T	85.51	99.87	90.77
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	6.85	13.75	12.66
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	57.53	67.5	65.82
Percentage of women scientists and researchers to the total scientific and research staff	5.48	6.25	7.59
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.1	0.02	0.08
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10.91	26.67	25.93
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Tobacco Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research on domestic and exportable types of tobacco, improvement in quality and value added products; Coordination of tobacco research and developing alternate usage of tobacco; Identification of alternative crops/ cropping systems for tobacco growing regions of the country; Dissemination of technologies and capacity building.

Location	Rajahmundry, Andhra Pradesh
Areas of Research: Crop Sciences	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	245	255	236
Staff engaged in R&D	32	35	33
Total Budget of the institution (Rs. Crores)	52.51	54.71	54.81

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	103.13	91.43	93.94
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	12.5	8.57	6.06
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	114.26	111.31	191.57
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0.18
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	8.57	-6.06
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	12.5	5.71	12.12
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	12.5	2.86	12.12
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	3.13	5.71	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	65.63	45.71	42.42
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0.36
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.18
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.57	0.91	1.64
Number of new services/products introduced (per Rs.10 Cr spent)	0.19	0.18	0.36
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.15	0.17	0.2
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.05	0.01	0.01
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.11	0.04	0.03
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	3.03

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	12.5	11.43	9.09
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	8.33	2.86	4.04
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	13.1	13.7	14
Percentage of organisation's budget spent on R&D and S&T	88.7	92.28	93.79
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.13	5.71	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	31.3	40	39.4
Percentage of women scientists and researchers to the total scientific and research staff	31.3	37.1	36.4
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.38	0.54	0.32
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	16.12	15.62	32.25
Does the lab have incentives in place to promote talent?	No	No	No

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Central Tuber Crops Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: The Institute has a broad mandate of generating research information on tropical tuber crops that help to enhance productivity and improve the utilization potential.
To undertake basic, strategic and applied research for generating technologies to enhance productivity and utilization potential of tuber crops (other than potato), To act as a national repository of scientific information on tuber crops,To coordinate network research with State Agricultural Universities and ICAR Institutes for generating location specific technologies, To act as a centre for human resource development for various clientele systems involved in research and development of tuber crops,To undertake transfer of tuber crops technology through consultancy, outreach programmes and linkage with developmental agencies.

Location Thiruvananthapuram, Kerala

Areas of Research: Horticultural Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	185	187	166
Staff engaged in R&D	65	71	61
Total Budget of the institution (Rs. Crores)	22.55	25.61	24.75

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	56.92	29.58	21.31
Number of projects executed (per 100 scientific staff)	36.92	33.8	42.62
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	6.15	5.63	6.56
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	16.16
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-7.69	8.45	-16.39
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	226.15	245.07	303.28
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	2966.15	2036.62	3237.7
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	38.46	30.99	49.18
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	258.46	214.08	378.69
Percentage of publications in top 10% journals	8	9.09	3.33
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.81
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.44	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.22	0.26	0.24
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.59	1.54	1.27
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.03	0.1	0.05
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.54	2.82	1.64
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	10.77	7.04	11.47

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.08	5.63	6.56
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	1.83	14.82	27.87
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	0	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	35.1	38	36.8
Percentage of organisation's budget spent on R&D and S&T	27.1	37.36	29.56
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	2.82	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	53.8	59.2	50.8
Percentage of women scientists and researchers to the total scientific and research staff	41.5	40.8	37.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	No
Percentage of budget spent on training & skill up-gradation of staff	1.23	0.13	0.24
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	11.5	15.7	13.7
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Directorate of Cashew Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To undertake strategic, basic and applied research for enhancing productivity, quality, processing efficiency and value addition of cashew; To serve as a national repository of genetic resources and scientific information on cashew; To coordinate All India Coordinated Research Project on Cashew for addressing location and region-specific problems; To promote capacity building through the transfer of technology and consultancy services to stakeholders

Location Puttur, Karnataka

Areas of Research: Horticultural Sciences

Type of R&D performed Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	64	56	51
Staff engaged in R&D	20	17	15
Total Budget of the institution (Rs. Crores)	9.76	13.06	11.21

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	15	23.53	20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	35	11.76	46.67
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	35	11.76	46.67
Number of projects executed (per 100 scientific staff)	155	158.82	200
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	0	0
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	15	52.94	20
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	128.07	45.94	120.43
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	5	-17.65	-13.33
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	20	23.53	40
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	20	23.53	40
Number of trainings imparted (per 100 scientific staff)	0	0	6.67
Number of skill development programmes conducted (per 100 scientific staff)	0	0	0
Number of permanent scientists deputed to provide training (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	5	11.76	86.67
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	20	11.76	40
Percentage of publications in top 10% journals	0	0	7.69
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0.77	0
Number of IPRs granted (per Rs.10 Cr spent)	1.02	0	0.89
Number of IPRs licensed out (per Rs.10 Cr spent)	1.02	0	0.89
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.02	0	0.89
Number of new services/products introduced (per Rs.10 Cr spent)	6.15	0	1.78
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.01	0.04
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0	0.02
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.15	0.82	1.18
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	6.66
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	20	23.53	26.67
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	5	11.76	68.1
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	31.25	30	29.41
Percentage of organisation's budget spent on R&D and S&T	7.31	5.08	7.12
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	20	23.53	40
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	70	71	60
Percentage of women scientists and researchers to the total scientific and research staff	50	47	33
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	0.14	0.07	0.07
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	35.71	30.76	15.38
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Directorate of Coldwater Fisheries Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To conduct basic, strategic and applied research in coldwater fisheries and aquaculture; To act as repository of hill fisheries resources; Human resource development through training, education

Location	Nainital, Uttarakhand
Areas of Research: Fisheries	
Type of R&D performed	Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	75	76	72
Staff engaged in R&D	40	43	40
Total Budget of the institution (Rs. Crores)	11.75	14.2	14.05

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	12.5	13.95	10
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5	6.98	12.5
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.5	2.33	7.5
Number of projects executed (per 100 scientific staff)	75	76.74	62.5
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	2.5	2.33	2.5
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	117.5	134.88	115
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	40.85	109.86	65.48
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	5.11	4.23	4.27
Increase in the number of staff engaged in R&D (per 100 scientific staff)	2.5	6.98	-7.5
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	10	9.3	15
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	7.5	4.65	17.5
Number of trainings imparted (per 100 scientific staff)	22.5	39.53	22.5
Number of skill development programmes conducted (per 100 scientific staff)	5	18.6	12.5
Number of permanent scientists deputed to provide training (per 100 scientific staff)	32.5	48.84	32.5
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	40	37.21	25
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	187.5	234.88	262.5
Percentage of publications in top 10% journals	18.75	6.25	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	5	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	1.41	0.71
Number of IPRs granted (per Rs.10 Cr spent)	0	0.7	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0.71
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	5.96	4.23	2.85
Number of new services/products introduced (per Rs.10 Cr spent)	3.4	2.11	2.14
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.2	0.09	0.08
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.01	0.01
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.95	0.61	0.85
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	5	2.33	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	12.5	11.63	10
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	15	12.4	9.38
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	53.3	56.6	55.6
Percentage of organisation's budget spent on R&D and S&T	20.42	21.02	20.89
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.5	4.65	7.5
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	80	81.39	82.5
Percentage of women scientists and researchers to the total scientific and research staff	22.5	30.23	30
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.22	0.19	0.22
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	12	13	8.69
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Directorate of Floricultural Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To conduct basic, strategic and applied research to enhance sustainable productivity, quality and utilization of ornamental crops; To develop a repository of genetic resources and scientific information on ornamental crops; To transfer technology, capacity building and impact assessment of technologies; Coordinate research and validation of technologies through AICRP on Floriculture.

Location Pune, Maharashtra

Areas of Research: Horticultural Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	33	33	39
Staff engaged in R&D	23	21	23
Total Budget of the institution (Rs. Crores)	5.31	6.86	8.69

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	4.35	33.33	8.7
Number of projects executed (per 100 scientific staff)	69.57	61.9	56.52
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	4.35	14.29	13.04
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	412.54	120.83
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.88	4.37	2.3
Increase in the number of staff engaged in R&D (per 100 scientific staff)	8.7	0	8.7
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	4.35
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	34.78	38.1	43.48
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	47.83	38.1	21.74
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	1.88	1.46	1.15
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	2.3
Number of new services/products introduced (per Rs.10 Cr spent)	0	2.92	1.15
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.21	0.04	0.05
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0.49
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	4.35

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	13.04	19.05	17.39
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	10.7	12.7	14.49
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	69.7	63.6	59
Percentage of organisation's budget spent on R&D and S&T	26.42	14.56	16.53
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	87	85.7	87
Percentage of women scientists and researchers to the total scientific and research staff	34.8	38.1	39.1
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.11	0.03	0.04
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	69.23	61.53	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Directorate of Groundnut Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To conduct basic, strategic and adaptive research on groundnut to improve productivity and quality;To provide access to information, knowledge and genetic material to develop suitable varieties and technologies; Coordination of applied research to develop location specific varieties and technologies; Dissemination of technologies and capacity building

Location Junagadh, Gujarat

Areas of Research: Crop Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	123	91	83
Staff engaged in R&D	66	46	41
Total Budget of the institution (Rs. Crores)	2.93	3.07	4.21

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	7.58	19.57	14.63
Number of projects executed (per 100 scientific staff)	37.88	58.7	58.54
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	3.03	4.35	4.88
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	177.47	208.47	121.14
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	3.41	6.51	4.75
Increase in the number of staff engaged in R&D (per 100 scientific staff)	25.76	-43.48	-12.2
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	10.61	6.52	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	7.58	4.35	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	24.24	28.26	34.15
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	163.64	273.91	331.71
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	17.06	13.03	21.38
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.08	0	0.03
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.66	19.74	2.42
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	2.17	2.44
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	2.17	2.44

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	7.58	10.87	12.2
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	24.24	26.24	31.71
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	1.52	2.17	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	53.6	50.5	49.4
Percentage of organisation's budget spent on R&D and S&T	16.87	20.57	29.22
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	12.12	8.7	12.2
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	86.4	78.3	83
Percentage of women scientists and researchers to the total scientific and research staff	24.2	30.4	31.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.17	0.13	0.09
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	46	56	27
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Directorate of Poultry Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and applied research to enhance productivity of poultry; Development of new germplasm for rural poultry husbandry; Capacity building

Location Hyderabad, Telangana

Areas of Research: Horticultural Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	57	59	66
Staff engaged in R&D	22	22	29
Total Budget of the institution (Rs. Crores)	15.97	22.17	21.96

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	59.09	59.09	62.07
Number of projects executed (per 100 scientific staff)	104.55	104.55	58.62
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	27.27	27.27	20.69
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	57.61	87.05	110.66
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	0	24.14
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	45.45	50	58.62
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	90.91	90.91	68.97
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	100	104.55	134.48
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	313.64	345.45	279.31
Percentage of publications in top 10% journals	13.64	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0.45	1.82
Number of IPRs granted (per Rs.10 Cr spent)	0	0.45	1.82
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.45	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	2.5	1.35	1.37
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.08	0.77	0.83
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.03	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.19	0.75	0.19
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.16	0.28	0.14
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	4.55	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	9.09	4.55	10.34

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	9.09	4.55	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	61.9	45.45	37.93
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	38.6	37.3	43.9
Percentage of organisation's budget spent on R&D and S&T	81.79	80.37	82.2
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	9.09	4.55	3.45
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	45.5	27.3	41.4
Percentage of women scientists and researchers to the total scientific and research staff	13.6	13.6	10.3
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.08	0.09	0.13
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	81.25	82.35	50
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Directorate of Rapeseed Mustard Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: The national repository of rapeseed-mustard genetic resources and information; Basic, strategic and applied research to improve the productivity and quality of oil and seed meal; Development of ecologically sound and economically viable production and protection technologies for different situations; Generation of location specific inter-disciplinary information based on multi-location testing and coordination; Establishment of linkages and promotion of cooperation with national and international agencies to achieve above objectives; To extended technical expertise and consultancies.

Location Bharatpur, Rajasthan

Areas of Research: Crop Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	60	64	72
Staff engaged in R&D	32	40	46
Total Budget of the institution (Rs. Crores)	10.77	11.3	13.83

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	21.88	15	19.57
Number of projects executed (per 100 scientific staff)	21.88	20	13.04
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	15.63	17.5	15.22
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	16.71	17.7	14.46
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.86	0.88	0.72
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-40.63	20	13.04
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	3.13	15	6.52
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	3.13	17.5	8.7
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	50	45	36.96
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	100	117.5	154.35
Percentage of publications in top 10% journals	0	5.56	5.88
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0.72
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.88	0.72
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	6.5	5.31	6.51
Number of new services/products introduced (per Rs.10 Cr spent)	1.86	1.77	2.17
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.01	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.28	0.26	0.14
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.23	8.85	1.58
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.12	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	2.5	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	6.25	5	4.35
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	6.25	4.74	4.35
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	53	62	64
Percentage of organisation's budget spent on R&D and S&T	8.39	7.46	10.12
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	5	4.35
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	62	67	74
Percentage of women scientists and researchers to the total scientific and research staff	22	22	20
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.27	0.18	0.18
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	100	100	100
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Agricultural Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: The major mandate of the Academy is to build capacity in agricultural research, education and extension education systems, and provide policy advocacy for the National Agricultural Research and Education System (NARES).

Location New Delhi

Areas of Research: Horticultural Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	2273	2195	2170
Staff engaged in R&D	664	662	716
Total Budget of the institution (Rs. Crores)	496.56	587.58	577.58

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	7.53	13.14	12.01
Number of projects executed (per 100 scientific staff)	34.04	39.43	37.15
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	7.53	9.52	10.47
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	77.96	52.35	32.69
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.08	0.15	0.19
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.97	-0.3	7.54
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.42	0	1.47
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.42	0	0.23
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	27.53
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	35.69	36.1	33.8
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	2.72	4.33
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.15	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	100.45	96.07	105.73
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	1.66	1.66	1.96
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	564.46	577.79	594.41
Percentage of publications in top 10% journals	7.35	5.5	5.42
Number of IPRs filed (per Rs.10 Cr spent)	0.16	0.02	0.48
Number of IPRs granted (per Rs.10 Cr spent)	0.32	0.2	0.16
Number of IPRs licensed out (per Rs.10 Cr spent)	0.12	0.44	0.07
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.02	0.03	0.09
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.18	0.48	0.07
Number of new services/products introduced (per Rs.10 Cr spent)	0.34	0.19	0.09
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.31	0.06	0.12
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	3.03	3.29	3.02
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.1	0.05	0.13
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0.15	0.14
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.81	2.27	2.23
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	14	12.09	15.65

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	5.42	5.44	4.47
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	13.4	15.86	15.5
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	19.85	23.23	28.65
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	1.05	1.06	0.84
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	29.2	30.2	33
Percentage of organisation's budget spent on R&D and S&T	6.05	13.67	14.83
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.96	3.02	2.79
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	68.5	56.3	60.1
Percentage of women scientists and researchers to the total scientific and research staff	37	38.4	37.4
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.07	0.1	0.07
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	13.55	14.05	14.58
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Agricultural Statistics Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To undertake research, education and training in agricultural statistics, computer applications in agriculture and agricultural bioinformatics & To provide advisory/consultancy services / methodological support / computational solutions to NARES/NASS (National Agricultural Research and Education System/ National Agricultural Statistics System)

Location New Delhi

Areas of Research: Agricultural Economics and Statistics

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	305	349	320
Staff engaged in R&D	148	180	173
Total Budget of the institution (Rs. Crores)	59.57	64.73	61.39

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	6.76	3.89	3.47
Number of projects executed (per 100 scientific staff)	63.51	52.22	54.34
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	9.46	6.11	7.51
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	77.39	36.15	221.53
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.01	1.85	2.44
Increase in the number of staff engaged in R&D (per 100 scientific staff)	1.35	17.78	-4.05
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	16.89	10	15.61
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	3.38	6.67	6.36
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	50	35	40.46
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	202.7	235.56	273.41
Percentage of publications in top 10% journals	1.35	4.76	2.86
Number of IPRs filed (per Rs.10 Cr spent)	2.01	2.01	0
Number of IPRs granted (per Rs.10 Cr spent)	1.34	1.85	2.61
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.31	0.33
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.09	0.01	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.3	4.07	3.03
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0.02
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.68	1.11	1.16
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.38	3.33	4.62
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	39.86	31.11	32.37
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	31.25	22.42	29.81
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	48.52	51.58	54.06
Percentage of organisation's budget spent on R&D and S&T	76.02	84.58	80.59
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	77.03	81.11	80.35
Percentage of women scientists and researchers to the total scientific and research staff	27.7	28.89	26.59
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.62	0.65	0.54
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Horticultural Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: The mandate is to enhance productivity, quality and utilization of horticultural crops, act as repository of horticultural PGR and scientific data, develop and transfer technology, HRD & education.

Location	Bengaluru, Karnataka
Areas of Research: Horticultural Sciences	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	515	621	545
Staff engaged in R&D	270	364	281
Total Budget of the institution (Rs. Crores)	108.33	127.72	107.07

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5.93	5.77	10.32
Number of projects executed (per 100 scientific staff)	81.11	64.84	83.63
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	30.74	20.05	65.84
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	49.66	105.7	99.65
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.83	0.31	0.28
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-143.33	25.82	-29.54
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.65	0.31	0.37
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.65	0.23	0.28
Number of new hires by the current incubatees (per Rs.10 Cr spent)	2.03	1.02	2.33
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	5.19	10.44	8.9
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	1.48	4.67	3.2
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	34.07	20.88	63.7
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0.74	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	117.78	73.35	103.56
Percentage of publications in top 10% journals	1.09	3.95	5.03
Number of IPRs filed (per Rs.10 Cr spent)	0.28	0.7	0.19
Number of IPRs granted (per Rs.10 Cr spent)	1.11	0.16	0.09
Number of IPRs licensed out (per Rs.10 Cr spent)	0.18	0	0.19
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0.09
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	3.51	2.98	3.08
Number of new services/products introduced (per Rs.10 Cr spent)	3.05	1.41	1.03
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.03	0.06	0.05
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.22	0.21	0.19
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.49	1.18	0.46
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.59	0.89	0.48
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.11	0.82	0.71
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.7	1.65	4.98

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0.37	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	14.81	12.36	16.73
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	30.67	19.45	61.2
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	52.4	58.6	51.6
Percentage of organisation's budget spent on R&D and S&T	91.14	93.57	95.76
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	4.07	4.95	4.63
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	53	65.4	58
Percentage of women scientists and researchers to the total scientific and research staff	50.4	47	40.9
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.05	0.04	0.07
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	12.15	4.62	8.45
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Maize Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research aimed at enhancement of productivity and production of maize, including specialty corn; Coordination of multi-disciplinary and multi-location research to identify appropriate technologies for varied agro-climatic conditions; Dissemination of improved technologies, capacity building and developing linkages; Coordination of the All India Coordinated Research Project (AICRP) on Maize and to carry out extension and outreach programmes.

Location Ludhiana, Punjab

Areas of Research: Natural Resource Management

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	52	65	82
Staff engaged in R&D	39	51	69
Total Budget of the institution (Rs. Crores)	15.6	19.6	20.5

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	7.69	5.88	2.9
Number of projects executed (per 100 scientific staff)	92.31	66.67	53.62
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	10.26	5.88	2.9
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	916.09	2078	5756.39
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.64	2.55	2.92
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-30.77	23.53	26.09
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	7.69	5.88	7.25
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	2.56	11.76	1.45
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	46.15	39.22	37.68
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	7.69	11.76	1.45
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	266.67	215.69	227.54
Percentage of publications in top 10% journals	0	0	7.69
Number of IPRs filed (per Rs.10 Cr spent)	0	0	3.41
Number of IPRs granted (per Rs.10 Cr spent)	1.28	0.51	0.97
Number of IPRs licensed out (per Rs.10 Cr spent)	1.28	1.02	2.92
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.28	3.58	6.82
Number of new services/products introduced (per Rs.10 Cr spent)	1.28	3.07	1.95
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.06	0.24	0.26
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.11	0.11	0.12
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.05	0.05	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	7.69	7.84	4.35
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	2.57	11.76	5.8

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	41.03	25.49	24.64
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	41.03	39.22	35.59
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	7.84	8.7
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	75	78.46	84.15
Percentage of organisation's budget spent on R&D and S&T	24.64	23.75	21.54
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.56	3.92	2.9
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	46.15	33.33	21.74
Percentage of women scientists and researchers to the total scientific and research staff	23.08	19.61	21.74
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.17	0.2	0.15
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	37.9	44.4	62.1
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Millets Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To conduct research in millets through developing high-yielding varieties and hybrids in sorghum, pearl millet and small millets, through innovation-led breeding and management technologies for the rainfed and dryland ecologies; to develop nutri-millet technologies to transform the subsistence farming into market and income generation oriented system.

Location Hyderabad, Telangana

Areas of Research: Crop Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	107	121	126
Staff engaged in R&D	55	62	75
Total Budget of the institution (Rs. Crores)	20.31	26.4	28.25

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	21.82	16.13	54.67
Number of projects executed (per 100 scientific staff)	36.36	38.71	32
Beneficiaries of lab's programmes	NGOs	NGOs	NGOs
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	90.91	80.65	66.67
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	738.55	568.18	530.97
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	20.19	15.53	14.16
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-10.91	1.61	-1.33
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	10.83	4.17	4.96
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	5.3	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	89.61	31.44	25.13
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	21.82	11.29	16
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	20	16.13	13.33
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	80	20.97	24
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	120	175.81	152
Percentage of publications in top 10% journals	6.82	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0.98	0	0
Number of IPRs granted (per Rs.10 Cr spent)	2.46	3.03	1.77
Number of IPRs licensed out (per Rs.10 Cr spent)	0.98	1.89	1.42
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.98	1.89	1.42
Number of new services/products introduced (per Rs.10 Cr spent)	9.35	4.92	3.89
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.31	0.24	0.18
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.08	0.06	0.04
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	5.37	0.43	1.18
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.52	1.52	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	5.45	9.68	5.33
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	1.82	3.22	1.33

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.64	6.45	5.33
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	66.29	15.73	14.53
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	51.4	51.2	59.5
Percentage of organisation's budget spent on R&D and S&T	90	90	90
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	25.45	9.68	14.67
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	45.5	41.9	60
Percentage of women scientists and researchers to the total scientific and research staff	25.5	24.2	30.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	2	2	2
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	80	80	80
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Oil Palm Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic, strategic and applied research on genetic resource management and production technologies for enhancing productivity of oil palm; Transfer of technologies and capacity building of stakeholders for increasing production of oil palm

Location Pedavegi, Andhra Pradesh

Areas of Research: Horticultural Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	42	36	41
Staff engaged in R&D	30	29	37
Total Budget of the institution (Rs. Crores)	11.19	11.96	13.52

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	36	21.05	20.83
Number of projects executed (per 100 scientific staff)	92	89.47	104.17
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	28	94.74	87.5
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1341.6	1442.34	629.1
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0.82	1.6
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-12	-31.58	20.83
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	24	31.58	4.17
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	56	21.05	33.33
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	12	15.79	4.17
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	296	521.05	462.5
Percentage of publications in top 10% journals	14.29	25	0
Number of IPRs filed (per Rs.10 Cr spent)	0.92	0	0.8
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	6.43	4.12	4
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	8.26	3.29	4.8
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.12	0.16	0.17
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.96	0.46	0.86
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	4	5.26	4.17
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	8	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	20	26.32	25
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	4	0	4.17
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	59.5	52.8	58.5
Percentage of organisation's budget spent on R&D and S&T	93.42	99.77	88.58
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	60	47.4	62.5
Percentage of women scientists and researchers to the total scientific and research staff	40	36.8	20.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.13	0.12	0.07
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	16	36.84	16.67
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Oilseeds Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research to augment the productivity, oil content and quality of castor, sunflower, safflower, sesame, niger and linseed; Information management on oilseeds to develop policy framework for research and development strategy; Coordination of applied research on national and regional issues to develop location specific varieties and technologies; Dissemination of technology and capacity building.

Location Hyderabad, Telangana

Areas of Research: Crop Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	145	145	135
Staff engaged in R&D	51	50	50
Total Budget of the institution (Rs. Crores)	29.67	41.64	34.99

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	21.57	18	20
Number of projects executed (per 100 scientific staff)	90.2	88	86
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	45.1	54	18
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1.35	1.44	2.57
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.34	0.24	0.57
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	-2	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	7.84	12	10
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	43.14	40	38
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	29.41	22	22
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	92.16	124	106
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	1.69	2.64	3.72
Number of IPRs granted (per Rs.10 Cr spent)	1.69	2.4	2.86
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	4.04	2.64	3.14
Number of new services/products introduced (per Rs.10 Cr spent)	3.37	2.64	2.29
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.04	0.01	0.01
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.58	0.09	1.95
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.12	0.15	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.96	2	2
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.92	4	6

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	3.92	2	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	25.49	26	28
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	17.65	11	10
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	35.2	34.5	37
Percentage of organisation's budget spent on R&D and S&T	12.17	11.3	7.63
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	43.14	40	38
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	37.3	36	36
Percentage of women scientists and researchers to the total scientific and research staff	49	50	48
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.13	0.01	0.01
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	21.95	5	11.1
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Pulses Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To act as national centre for basic and applied research on pulse crops; To monitor, guide and coordinate research on pulses in the country; To impart training to scientists and extension workers engaged in pulses research and development; To foster national and international collaborations for exchange of views and material; To disseminate information on latest pulses production technology; To serve as an information bank on different aspects of pulses for strategic planning; To extend consultancy services and expertise

Location	Kanpur, Uttar Pradesh
Areas of Research: Crop Sciences	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	246	276	261
Staff engaged in R&D	175	198	191
Total Budget of the institution (Rs. Crores)	29.01	45.15	43.78

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.86	2.53	6.28
Number of projects executed (per 100 scientific staff)	33.14	20.2	29.84
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	1.14	2.02	3.14
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	282.32	339.98	88.85
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.41	1.55	1.6
Increase in the number of staff engaged in R&D (per 100 scientific staff)	21	11.62	4
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	17.14	12.12	16.75
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	31.43	26.77	39.79
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	91.43	131.82	182.2
Percentage of publications in top 10% journals	7.27	0	5.26
Number of IPRs filed (per Rs.10 Cr spent)	1.38	1.77	4.8
Number of IPRs granted (per Rs.10 Cr spent)	0.34	0.66	0
Number of IPRs licensed out (per Rs.10 Cr spent)	2.76	1.99	2.28
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.34	0	0.23
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	4.14	2.66	2.97
Number of new services/products introduced (per Rs.10 Cr spent)	1.38	1.33	3.65
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.29	0.12	0.02
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.14	0.51	4.71
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	4.57	4.04	7.85
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	5.14	3.03	2.09
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	4.96	4.39	7.67
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	3	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	71.1	71.7	73.1
Percentage of organisation's budget spent on R&D and S&T	80.87	52	6.63
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.43	2.53	4.19
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	24.6	19.2	22
Percentage of women scientists and researchers to the total scientific and research staff	24.5	22.7	20.4
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	2.77	4.47	3.68
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	28.3	22.3	18.4
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Rice Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research for enhancing rice productivity under irrigated ecosystem; Coordination of multi-location testing to develop location specific varieties and technologies for various ecosystems. (AICRIP); Dissemination of technologies, capacity building and establishing linkages.

Location Hyderabad, Telangana

Areas of Research: Crop Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	216	225	219
Staff engaged in R&D	148	157	156
Total Budget of the institution (Rs. Crores)	32.16	38.51	38.1

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	4.05	3.82	3.85
Number of projects executed (per 100 scientific staff)	33.78	38.85	31.41
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	39.19	35.67	26.92
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	143.03	118.15	83.46
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.62	0.52	0.79
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-3.38	5.73	-0.64
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	22.3	15.92	10.9
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	14.86	8.28	5.77
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.68	0.64	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.64	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	31.76	29.94	30.13
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	3.38	1.91	0.64
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	214.86	221.02	226.28
Percentage of publications in top 10% journals	4.26	2.13	0
Number of IPRs filed (per Rs.10 Cr spent)	0.31	0	0.52
Number of IPRs granted (per Rs.10 Cr spent)	0	2.08	1.05
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0.26
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.93	1.04	0.52
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0.26
Number of new services/products introduced (per Rs.10 Cr spent)	1.87	1.56	1.57
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.15	0.19	0.18
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.81	0.61	0.79
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.73	2.17	1.83
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.23	0.15	0.19
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	6.08	4.46	4.49
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	6.76	5.73	4.49

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	14.19	19.11	16.67
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	26.2	27.33	28.82
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	1.35	3.18	1.28
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	68.5	69.7	71.2
Percentage of organisation's budget spent on R&D and S&T	49.4	60.51	62.7
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0.68	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	67.5	68.7	66
Percentage of women scientists and researchers to the total scientific and research staff	33.1	31.8	30.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.16	0.18	0.39
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	8.95	10.4	7.35
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Seed Science

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To perform basic, strategic and anticipatory research in seed science and technology, coordinate the seed production and seed technology research and impart capacity building in the field of seed.

Location Mau, Uttar Pradesh

Areas of Research: Natural Resource Management

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	32	36	34
Staff engaged in R&D	23	26	25
Total Budget of the institution (Rs. Crores)	6.66	7.2	8.9

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	13.04	15.38	16
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	17.39	19.23	20
Number of projects executed (per 100 scientific staff)	69.57	69.23	88
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	130.43	250	260
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	55.56	22.47
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.5	1.39	1.12
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	11.54	-4
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	8.7	3.85	4
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	39.13	15.38	44
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	147.83	211.54	276
Percentage of publications in top 10% journals	11.11	0	9.09
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	2.78	2.25
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	3	2.78	2.25
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.41	0.47	0.45
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.47	13.35	0.74
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	4.35	3.85	4
Number of national collaborative projects executed with industry (per 100 scientific staff)	4.35	7.69	8

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	8.7	3.85	4
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	11.54	4
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	72	72	74
Percentage of organisation's budget spent on R&D and S&T	4.34	13.6	15.95
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	4.35	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	52	62	64
Percentage of women scientists and researchers to the total scientific and research staff	4	23	24
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.06	0.15	0.13
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	100	100	100
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Soil and Water Conservation

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Research for management of land degradation in primary production systems and rehabilitation of degraded lands in different agro-ecological regions of the country; Co-ordinate research network for developing location-specific technologies in the area of soil and water conservation; Act as Centre for training in research methodologies and updated technology in soil and water conservation and watershed management

Location Dehradun, Uttarakhand

Areas of Research: Natural Resource Management

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	412	419	389
Staff engaged in R&D	115	119	112
Total Budget of the institution (Rs. Crores)	4.08	2.64	10.55

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	12.17	9.24	8.04
Number of projects executed (per 100 scientific staff)	66.09	60.5	63.39
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	144.35	113.45	75.89
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	12450.98	30848.48	4225.59
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	12.25	45.45	5.69
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-5.22	3.36	-6.25
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	454.78	347.9	354.46
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	28.7	29.41	39.29
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	151.3	204.2	206.25
Percentage of publications in top 10% journals	12.12	5.71	2.27
Number of IPRs filed (per Rs.10 Cr spent)	4.9	3.79	0
Number of IPRs granted (per Rs.10 Cr spent)	2.45	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	46.57	87.12	21.8
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.8	3.29	0.85
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.19	0.24	0.05
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	12.49	8.09	1.51
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.87	0.84	0.89
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	6.09	3.36	3.57

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	5.22	5.04	6.25
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	15.51	18.54	26.19
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	27.9	28.4	28.8
Percentage of organisation's budget spent on R&D and S&T	17.99	12.83	18
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.74	0.84	0.89
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	33	38.7	39.3
Percentage of women scientists and researchers to the total scientific and research staff	18.3	19.3	18.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.14	0.11	0.1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	21.62	30.07	35.88
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Soil Science

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: The Institute has the mission of "Providing scientific basis for enhancing and sustaining productivity of soil resources with minimal environmental degradation" with following mandates: Basic and strategic research on physical, chemical and biological processes in soils related to management of nutrients, water and energy; Advanced technologies for sustainable soil health and quality; Coordinate the network research with State Agricultural Universities, National, International and other Research Organizations

Location Bhopal, Madhya Pradesh

Areas of Research: Natural Resource Management

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	132	147	141
Staff engaged in R&D	77	94	90
Total Budget of the institution (Rs. Crores)	16.93	21.24	21.91

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	10.39	6.38	7.78
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	7.79	6.38	6.67
Number of projects executed (per 100 scientific staff)	48.05	42.55	45.56
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	12.99	13.83	11.11
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	449.5	381.83	318.58
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.95	7.06	2.28
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-11.69	18.09	-4.44
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	20.78	8.51	10
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	272.73	487.23	417.78
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	1.11
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	97.4	48.94	60
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	28.57	19.15	17.78
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	366.23	378.72	353.33
Percentage of publications in top 10% journals	5.33	8.7	9.26
Number of IPRs filed (per Rs.10 Cr spent)	1.77	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.46
Number of IPRs licensed out (per Rs.10 Cr spent)	1.18	0.94	0.91
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	16.54	9.89	5.93
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	14.18	11.77	11.87
Number of new services/products introduced (per Rs.10 Cr spent)	1.77	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.28	0.41	0.36
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.49	0.49	0.48
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.69	1.64	1.14
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	1.35	0.45	0.43
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	3.9	4.26	5.56
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	15.58	10.64	11.11
Number of national collaborative projects executed with industry (per 100 scientific staff)	12.99	10.64	4.44

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	18.18	19.15	24.44
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	94.73	47.78	59.14
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	58.33	63.94	63.82
Percentage of organisation's budget spent on R&D and S&T	86.18	91.43	86.92
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.9	6.38	3.33
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	74.02	63.82	83.33
Percentage of women scientists and researchers to the total scientific and research staff	29.87	26.59	31.11
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.14	0.05	0.05
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	16.67	27.08	8.16
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Soybean Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic, strategic and adaptive research on soybean for improving productivity and quality; Provide access to information, knowledge and genetic material to develop improved technology and enhance soybean production; Coordination of applied research to develop location specific varieties and technologies; Dissemination of technology and capacity building.

Location Indore, Madhya Pradesh

Areas of Research: Crop Sciences

Type of R&D performed Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	78	85	102
Staff engaged in R&D	44	50	55
Total Budget of the institution (Rs. Crores)	13.92	16.57	16.36

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.27	10	20
Number of projects executed (per 100 scientific staff)	59.09	62	69.09
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	13.64	8	5.45
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	22.73	28	27.27
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	2618.53	1756.79	828.24
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	11.36	12	9.09
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of trainings imparted (per 100 scientific staff)	227.27	164	83.64
Number of skill development programmes conducted (per 100 scientific staff)	6.82	8	5.45
Number of permanent scientists deputed to provide training (per 100 scientific staff)	6.82	6	5.45
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	36.36	22	30.91
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	2	0
Number of reports leading to designs and products (per 100 scientific staff)	4.55	4	3.64
Number of IPRs filed (per Rs.10 Cr spent)	0.72	0.6	3.67
Number of IPRs granted (per Rs.10 Cr spent)	0.72	0.6	3.06
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	2.16	3.62	1.83
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.05	0.04	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.2	0.07	0.04
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.65	4.07	1.77
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	9.09	2	1.82

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	3.64
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	10.39	1.10	7.36
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	56.40	58.80	53.90
Percentage of organisation's budget spent on R&D and S&T	11.78	11.38	8.93
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	15.91	14	7.27
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	65.90	72	72.70
Percentage of women scientists and researchers to the total scientific and research staff	27.30	24	25.50
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.47	0.19	0.15
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	32.30	12.50	12.50
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Spices Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Research on crop improvement; crop production and crop protection technologies for production of safe spices; Transfer of technology, capacity building , and impact assessment of technologies.

Location Kozhikode, Kerala

Areas of Research: Horticultural Sciences

Type of R&D performed Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	100	98	91
Staff engaged in R&D	57	59	54
Total Budget of the institution (Rs. Crores)	17.96	24.6	22.4

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	3.51	5.08	12.96
Number of projects executed (per 100 scientific staff)	68.42	77.97	87.04
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	14.04	13.56	18.52
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	91.23	69.49	103.7
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	2761.69	1524.39	3165.18
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.23	1.22	2.23
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-36.84	3.39	-9.26
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	2.23	1.22	4.02
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.56	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	15.03	12.2	28.57
Number of trainings imparted (per 100 scientific staff)	252.63	196.61	287.04
Number of skill development programmes conducted (per 100 scientific staff)	8.77	13.56	12.96
Number of permanent scientists deputed to provide training (per 100 scientific staff)	71.93	66.10	68.52
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	35.09	38.98	48.15
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	1.75	0	12.96
Number of technology documents prepared in the last three years (per 100 scientific staff)	33.33	32.2	61.11
Number of national and international recognitions received by the lab (per 100 scientific staff)	17.54	25.42	16.67
Number of reports leading to designs and products (per 100 scientific staff)	3.51	3.39	5.56
Number of IPRs filed (per Rs.10 Cr spent)	13.92	3.66	3.57
Number of IPRs granted (per Rs.10 Cr spent)	1.67	1.22	8.04
Number of IPRs licensed out (per Rs.10 Cr spent)	3.9	2.85	0.89
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.41	3.57
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	4.45	3.25	0.89
Number of new services/products introduced (per Rs.10 Cr spent)	6.68	8.13	4.91
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.13	0.04
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.19	0.2	0.15
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	6.12	5.23	4.83
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.51	0	3.7

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	14.04	16.95	12.96
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	16.29	16.35	32.1
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	57	60.2	59.3
Percentage of organisation's budget spent on R&D and S&T	17.02	16.16	14.91
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.75	5.08	1.85
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	52.6	57.6	57.4
Percentage of women scientists and researchers to the total scientific and research staff	45.6	50.8	46.3
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.05	0.08	0.13
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	9.41	41	48.6
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Institute of Water Management

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Strategies for efficient management of on-farm water resources for sustainable agricultural productivity; Coordinate research for generating location-specific technologies for efficient use of water resources; Centre for training in agricultural water management.

Location	Bhubaneswar, Odisha
Areas of Research: Natural Resource Management	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	82	88	92
Staff engaged in R&D	55	57	62
Total Budget of the institution (Rs. Crores)	11.16	14.99	12.75

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5.45	5.26	4.84
Number of projects executed (per 100 scientific staff)	61.82	63.16	53.23
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	60	61.4	64.52
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1969.53	1070.71	1113.73
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.9	1.33	2.35
Increase in the number of staff engaged in R&D (per 100 scientific staff)	20	3.51	8.06
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	4.84
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	9.09	7.02	22.58
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	25.45	26.32	20.97
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	1.75	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	145.45	161.4	187.1
Percentage of publications in top 10% journals	0	6.67	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	2.69	2	2.35
Number of new services/products introduced (per Rs.10 Cr spent)	0	0.67	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.06	0.05
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0.01
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.4	0.37	0.32
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	5.45	5.26	3.23
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	7.27	1.76	1.61

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	18.18	17.54	17.74
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	6.94	6.58	1.31
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	67.07	64.77	67.39
Percentage of organisation's budget spent on R&D and S&T	6.71	4.79	4.95
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	3.51	3.23
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	52.7	56.1	56.4
Percentage of women scientists and researchers to the total scientific and research staff	21.82	22.81	16.13
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.2	0.17	0.23
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	38.71	34.48	25.81
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Indian Veterinary Research Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research for improvement of animal health for enhanced productivity Human resource development, imparting under-graduate and post-graduate education Dissemination of livestock production and health technologies

Location Izatnagar, Uttar Pradesh

Areas of Research: Animal Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	669	642	733
Staff engaged in R&D	329	325	342
Total Budget of the institution (Rs. Crores)	336.42	360.23	345.59

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	58.66	67.69	62.57
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	1403.04	1524.62	1212.28
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	4.07	6.63	3.56
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.52	1.39	2.72
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-4.56	-1.54	-3.22
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0.41
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0.35
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	2.63
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	63.83	56	28.95
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	113.37	105.85	88.3
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0.3	1.23	2.34
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	554.1	530.46	557.6
Percentage of publications in top 10% journals	5.09	5.52	4.64
Number of IPRs filed (per Rs.10 Cr spent)	0.12	0.14	0.49
Number of IPRs granted (per Rs.10 Cr spent)	0.12	0.11	0.43
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.03	0.03
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.03	0.06	0.03
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.12	0.06	0.06
Number of new services/products introduced (per Rs.10 Cr spent)	0.21	0.08	0.12
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.03	0.02	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.03	0.02	0.03
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.17	0.25	0.25
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.91	1.54	0.88
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	22.8	16.62	13.74

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0.62	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.95	8.62	6.14
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	113.37	105.85	88.3
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	49.2	50.6	46.7
Percentage of organisation's budget spent on R&D and S&T	6.57	4.96	4.57
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	24.6	26.8	30
Percentage of women scientists and researchers to the total scientific and research staff	11	9.1	10.9
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.33	0.25	0.22
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	24.58	22.94	32.27
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Academy of Agricultural Research Management

Ministry/Department/Organisation: Indian Council for Agricultural Research

Mandate of the institution: The major mandate of the Academy is to build capacity in agricultural research, education and extension education systems, and provide policy advocacy for the National Agricultural Research and Education System (NARES).

Location Hyderabad, Telangana

Areas of Research: Agricultural Education

Type of R&D performed Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	117	109	110
Staff engaged in R&D	57	59	65
Total Budget of the institution (Rs. Crores)	71.7	90.14	88.39

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	43.86	57.63	58.46
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	43.86	57.63	58.46
Number of projects executed (per 100 scientific staff)	57.89	67.8	66.15
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	17.54	20.34	18.46
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	73.68	111.86	112.31
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	308.09	379.08	376.4
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.56	0.55	0.79
Increase in the number of staff engaged in R&D (per 100 scientific staff)	28.07	6.78	9.23
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	1.26	0.89	0.79
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.28	0.89	0.91
Number of new hires by the current incubatees (per Rs.10 Cr spent)	15.2	1.78	0.45
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	84.21	66.1	81.54
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	35.09	42.37	70.77
Number of trainings imparted (per 100 scientific staff)	94.74	132.2	132.31
Number of skill development programmes conducted (per 100 scientific staff)	59.65	62.71	60
Number of permanent scientists deputed to provide training (per 100 scientific staff)	61.4	55.93	52.31
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	1.54
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	29.82	18.64	24.62
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	33.33	35.59	40
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	26.32	10.17	36.92
Percentage of publications in top 10% journals	0	9.09	18.75
Number of technology documents prepared in the last three years (per 100 scientific staff)	33.33	27.12	24.62
Number of national and international recognitions received by the lab (per 100 scientific staff)	5.26	1.69	3.08
Number of reports leading to designs and products (per 100 scientific staff)	15.79	8.47	13.85
Number of IPRs filed (per Rs.10 Cr spent)	0	0.11	0.79
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.91
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0.57
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.33	0.68
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0.91
Number of new services/products introduced (per Rs.10 Cr spent)	0.7	0.22	1.13
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.29	0.25	0.42
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.05	0.08	0.1
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.32	0.1	0.09
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.13	0.09	0.64

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.75	3.39	3.08
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.51	3.39	3.08
Number of national collaborative projects executed with industry (per 100 scientific staff)	8.77	11.86	12.31
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	14.04	13.56	20
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	9.32	6.78	10.55
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	48.7	54.1	59.1
Percentage of organisation's budget spent on R&D and S&T	72.31	73.79	74.73
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	17.54	23.73	21.54
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	66.7	66.1	76.9
Percentage of women scientists and researchers to the total scientific and research staff	29.8	39	41.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.29	0.41	0.21
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	30	35	35
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Bureau of Agricultural Insect Resource

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To act as a nodal agency for collection, characterization, documentation, conservation, exchange, research and utilization of agriculturally important insect resources (including mites, spiders and related arthropods) and insect derived resources for sustainable agriculture. Capacity building, development of technologies for non chemical pest management, dissemination of technologies and forging linkages with stakeholders.

Location Bengaluru, Karnataka

Areas of Research: Crop Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	84	86	89
Staff engaged in R&D	56	58	63
Total Budget of the institution (Rs. Crores)	14.32	21.37	12.53

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5.36	6.9	12.7
Number of projects executed (per 100 scientific staff)	114.29	89.66	77.78
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	41.07	37.93	19.05
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	90.08	104.82	178.77
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.4	1.87	3.19
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-35.71	3.45	7.94
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	8.93	15.52	17.46
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	17.86	8.62	7.94
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	78.57	72.41	61.9
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	108.93	229.31	582.54
Percentage of publications in top 10% journals	0	0	7.2
Number of IPRs filed (per Rs.10 Cr spent)	4.19	0.94	1.6
Number of IPRs granted (per Rs.10 Cr spent)	0	1.87	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0.7	0.47	0.8
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.7	1.87	8.78
Number of new services/products introduced (per Rs.10 Cr spent)	2.09	1.87	6.38
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.28	0.2	0.27
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.21	0.67	1.23
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.17	0.03	0.1
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.79	5.17	4.76
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	8.93	12.07	17.46

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	5.36	10.34	11.11
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	53.57	48.28	52.38
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	50	41.38	33.33
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	66.67	67.44	70.79
Percentage of organisation's budget spent on R&D and S&T	94.19	83.73	95.48
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.79	3.45	3.17
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	55.36	56.9	63.49
Percentage of women scientists and researchers to the total scientific and research staff	39.29	46.55	52.38
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.17	0.13	0.09
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Bureau of Agriculturally Important Microorganisms

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To act as the nodal Institute at national level for acquisition and management of indigenous and exotic microbial genetic resources for food and agriculture, and to carry out related research and human resource development, for sustainable growth of agriculture

Location Mau, Uttar Pradesh

Areas of Research: Crop Sciences

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	65	66	61
Staff engaged in R&D	42	43	61
Total Budget of the institution (Rs. Crores)	10.19	10.49	11.94

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	7.14	16.28	6.56
Number of projects executed (per 100 scientific staff)	92.86	93.02	65.57
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	11.9	13.95	8.2
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	590.78	903.72	1670.85
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.98	2.86	0.84
Increase in the number of staff engaged in R&D (per 100 scientific staff)	40	2.33	29.51
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	1.64
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	40.48	11.63	26.23
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	66.67	65.12	62.3
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	633.33	790.7	631.15
Percentage of publications in top 10% journals	7.14	7.14	15.79
Number of IPRs filed (per Rs.10 Cr spent)	0.98	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0.95	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.98	0.95	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.2	0.19	0.18
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.64	1.01	0.61
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.06	0.04	0.14
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.38	2.33	1.64
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	9.53	18.6	19.67
Number of national collaborative projects executed with industry (per 100 scientific staff)	2.38	4.65	1.64

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	26.19	25.58	19.67
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	62.32	55.25	43.87
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	No	No	No
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	64.6	65.2	100
Percentage of organisation's budget spent on R&D and S&T	60.74	52.03	59.73
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	6.97	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	81	81.4	85.2
Percentage of women scientists and researchers to the total scientific and research staff	19	20.9	23
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.0043	0.004	0.001
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	11	10.5	9.5
Does the lab have incentives in place to promote talent?	No	No	No

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Bureau of Animal Genetic Resources

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To conduct research on identification, evaluation, characterization, conservation and sustainable utilization of livestock and poultry genetic resources of India as well as co-ordination and capacity building in animal genetic resources (AnGR) management and policy issues; to document indigenous livestock and poultry diversity; to organize training and sensitization programs for the management of AnGR; to develop and support policies for AnGR management for different Government agencies such as State Animal Husbandry Departments and Livestock Boards.

Location Karnal, Haryana

Areas of Research: Animal Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	74	82	89
Staff engaged in R&D	37	46	55
Total Budget of the institution (Rs. Crores)	13.35	17.17	15.81

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	78.38	60.87	67.27
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	2.7	4.35	1.82
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	41.95	15.14	18.98
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.75	0.58	0.63
Increase in the number of staff engaged in R&D (per 100 scientific staff)	16.22	19.57	16.36
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	37.84	30.43	10.91
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	97.3	78.26	67.27
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	270.27	304.35	290.91
Percentage of publications in top 10% journals	2.78	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.63
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.75	0.58	1.9
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.1	0.04	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.01	0.02
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.06	1.73	2.01
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	8.1	10.87	14.54

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	43.24	30.43	38.18
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	68.47	44.02	37.37
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	50	56.1	61.8
Percentage of organisation's budget spent on R&D and S&T	11.75	11.72	14.85
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	16.22	6.52	10.91
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	21.6	43.5	49.1
Percentage of women scientists and researchers to the total scientific and research staff	27	45.7	52.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.32	0.18	0.3
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	23	27.58
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Bureau of Fish Genetic Resources

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: ICAR-NBFGR, Lucknow is working under the ICAR, DARE, Ministry of Agriculture and Farmers Welfare is entrusted to address the researchable issues relevant to aquatic genetic resource management and utilization and provide technical support to various departments for fulfilling national and international obligations of the country. The mandate of the Institute includes: Exploration, characterization and cataloguing of fish genetic resources; Maintenance and preservation of fish genetic resources for conservation and utilization of prioritized species; and Evaluation of indigenous and exotic germplasm including risk assessment and fish health.

Location Lucknow, Uttar Pradesh

Areas of Research: Fisheries

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	141	164	178
Staff engaged in R&D	73	94	109
Total Budget of the institution (Rs. Crores)	24.01	27.56	26.2

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	10.96	4.26	6.42
Number of projects executed (per 100 scientific staff)	57.53	45.74	39.45
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	6.85	9.57	6.42
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	376.51	372.28	303.05
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.5	1.81	1.15
Increase in the number of staff engaged in R&D (per 100 scientific staff)	21.92	22.34	13.76
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	2.74	6.38	3.67
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	13.7	9.57	13.76
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	60.27	31.91	47.71
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	3.19	0.92
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	236.99	189.36	155.05
Percentage of publications in top 10% journals	2.27	6.67	1.92
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.73	0.38
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.83	0.73	1.15
Number of new services/products introduced (per Rs.10 Cr spent)	1.67	2.54	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.03	0.04	0.08
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.65	3.47	2.02
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.04	0	0.04
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.74	1.06	1.83
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	10.96	2.13	4.59

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	17.81	14.89	10.09
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	41.52	29.01	38.71
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	51.8	57.3	61.7
Percentage of organisation's budget spent on R&D and S&T	24.58	24.66	28.32
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	5.48	7.45	8.26
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	50.7	60.6	66.1
Percentage of women scientists and researchers to the total scientific and research staff	20.5	28.7	29.4
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.23	0.18	0.21
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	52.94	14.28	11.42
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Bureau of Plant Genetic Resources

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Management and promote sustainable use of plant genetic and genomic resources of agri-horticultural crops and carry out related research; Coordination and capacity building in PGR management and policy issues governing access and benefit sharing of their use; Molecular profiling of varieties of agri-horticultural crops and GM-detection technology research

Location New Delhi

Areas of Research: Crop Sciences

Type of R&D performed Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	236	240	270
Staff engaged in R&D	190	189	220
Total Budget of the institution (Rs. Crores)	114.6	124.24	116.51

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	11.05	5.82	7.27
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	4.74	1.59	0.91
Number of projects executed (per 100 scientific staff)	60	62.43	57.27
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	5.26	5.82	6.36
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	3.68	4.23	3.18
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	102.97	56.34	103
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.09	0.08	0.34
Increase in the number of staff engaged in R&D (per 100 scientific staff)	5.79	-0.53	14.09
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	4.21	2.12	2.73
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	4.21	17.99	10.91
Number of trainings imparted (per 100 scientific staff)	2.11	6.35	5
Number of skill development programmes conducted (per 100 scientific staff)	0	0	0
Number of permanent scientists deputed to provide training (per 100 scientific staff)	0	0.53	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	48.95	55.03	42.27
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	288.42	236.51	338.18
Percentage of publications in top 10% journals	6.45	4.81	2.15
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0.53	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.09
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.61	0.64	0.77
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.07	0.1	0.14
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	3.47	4	4.6
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0.02	0.08

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.53	0.53	0.45
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	5.79	7.41	5.45
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0.45
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	6.84	8.99	6.36
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	35.74	36.1	28.45
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	2.63	1.06	2.73
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	72.24	72.41	76.39
Percentage of organisation's budget spent on R&D and S&T	34.89	24.61	31.17
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	No	No	No
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	23.7	22.2	19.5
Percentage of women scientists and researchers to the total scientific and research staff	26.8	24.3	21.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.05	0.06	0.04
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	22.4	16.2	8.2
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Bureau of Soil Survey and Land Use Planning

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To conduct soil survey and mapping of the soils of the country to promote scientific and optimal land use programmes in collaboration with relevant institutions and agencies; To conduct and promote research in the National Agricultural Research System in the areas of Pedology, Soil survey, Remote sensing applications, Land degradation, Land evaluation and Land use planning; To impart training and education to create awareness on soil and land resources and their state of health.

Location Nagpur, Maharashtra

Areas of Research: Natural Resource Management

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	276	277	259
Staff engaged in R&D	168	174	143
Total Budget of the institution (Rs. Crores)	74.46	78.26	83.7

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.79	4.02	1.4
Number of projects executed (per 100 scientific staff)	33.33	60.34	80.42
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	4.76	14.94	12.59
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	49.02	37.82	13.86
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0.64	0.12
Increase in the number of staff engaged in R&D (per 100 scientific staff)	13.1	3.45	-21.68
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	5.36	6.32	7.69
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	6.9	11.19
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	19.64	33.33	19.58
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0.6	0	0.7
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	62.5	104.6	133.57
Percentage of publications in top 10% journals	6.06	0	14.29
Number of IPRs filed (per Rs.10 Cr spent)	0.81	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0.4	0.77	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.13	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.67	0.51	0.36
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.72	0.53	0.62
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0.02
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.7	0.52	0.57
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0.05	0.04
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.6	0.57	0.7
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0.6	2.3	4.9

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	1.15	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	9.52	9.77	11.89
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	12.77	13.98	11.42
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	1.19	1.72	2.1
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	60.9	62.8	55.2
Percentage of organisation's budget spent on R&D and S&T	45	42	43.5
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0.6	2.3	3.5
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	76.2	75.3	71.3
Percentage of women scientists and researchers to the total scientific and research staff	26.8	28.2	33.6
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.12	0.11	0.2
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	13.1	18	28
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Institute for Plant Biotechnology

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To undertake basic plant molecular biology research for understanding molecular mechanisms underlying basic biology processes; To develop capabilities of devising tools and techniques of biotechnology and genetic engineering for crop improvement; To use the knowledge gained and technologies developed for advancing agriculture development; To serve as a national lead center for plant molecular biology and biotechnology research and to create trained manpower in the area of plant biotechnology

Location New Delhi

Areas of Research: Crop Sciences

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	140	167	148
Staff engaged in R&D	161	192	173
Total Budget of the institution (Rs. Crores)	14.09	18.51	18.9

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5	7.19	7.43
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.14	4.19	5.41
Number of projects executed (per 100 scientific staff)	29.29	25.15	27.03
Beneficiaries of lab's programmes	Individuals	Individuals	Individuals
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	13.57	12.57	10.14
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	53.94	50.24	50.26
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0.53
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-22.86	16.17	-12.84
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	9.29	6.59	7.43
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	9.29	22.75	26.35
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	82.14	104.19	56.08
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0.68
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	763.57	562.28	803.38
Percentage of publications in top 10% journals	5.22	6.9	6.02
Number of IPRs filed (per Rs.10 Cr spent)	0.71	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0.71	2.7	3.17
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.06	0.11	0.04
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.84	6.04	4.18
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.43	1.2	1.35
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	12.86	17.37	9.46
Number of national collaborative projects executed with industry (per 100 scientific staff)	0.71	0.6	1.35

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	11.43	8.98	10.14
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	13.55	20.56	9.78
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	86.96	86.98	85.55
Percentage of organisation's budget spent on R&D and S&T	17.84	15.51	23
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.57	4.19	3.38
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	83.57	86.23	84.46
Percentage of women scientists and researchers to the total scientific and research staff	37.14	42.52	44.6
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.06	0.14	0.08
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	12.12	9.4	9.7
Does the lab have incentives in place to promote talent?	No	No	No

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Institute of Abiotic Stress Management

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research to manage abiotic stresses in crops, livestock and fisheries; Repository of information on abiotic and biotic stresses, adaptation and mitigation strategies and policies; Building sustainable agriculture in multi-stressed agro-ecosystems; Serve as Center of Academic Excellence in managing multiple stresses in agriculture.

Location Pune, Maharashtra

Areas of Research: Natural Resource Management

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	69	56	38
Staff engaged in R&D	41	36	35
Total Budget of the institution (Rs. Crores)	22.76	16.2	14.36

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	9.76	11.11	11.43
Number of projects executed (per 100 scientific staff)	75.61	75	88.57
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	7.32	11.11	5.71
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	476.71	722.22	526.46
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.44	0.62	0.7
Increase in the number of staff engaged in R&D (per 100 scientific staff)	2.44	-13.89	-2.86
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	56.1	50	74.29
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	2.44	2.78	2.86
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	2.78	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	65.85	63.89	51.43
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	11.43
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	514.63	794.44	1091.43
Percentage of publications in top 10% journals	14.81	4.35	11.11
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0.7
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.76	2.47	3.48
Number of new services/products introduced (per Rs.10 Cr spent)	1.76	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.57	0.56	0.56
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.09	0.28	0.17
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	4.39	6.17	8.36
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.44	2.78	2.86
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	7.32	8.33	8.57
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	7.32	8.33	8.57
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	39.51	63.89	51.43
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	2	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	59.4	64.3	92.1
Percentage of organisation's budget spent on R&D and S&T	80	80	80
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	12.2	11.11	17.14
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	41.5	38.9	37.1
Percentage of women scientists and researchers to the total scientific and research staff	2.4	5.6	5.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.8	0.8	1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	100	100	100
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Institute of Agricultural Economics and Policy Research

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Agricultural economics and policy research on markets, trade and institutions Growth and development models for sustainable agriculture Technology policy, evaluation and impact assessment

Location	New Delhi
Areas of Research: Agricultural Economics and Statistics	
Type of R&D performed	Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	71	66	64
Staff engaged in R&D	54	50	50
Total Budget of the institution (Rs. Crores)	9.78	12.63	12.66

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	31.48	48	36
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	31.48	48	36
Number of projects executed (per 100 scientific staff)	37.04	48	48
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments NGOs	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	9.26	18	18
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	22.22	38	34
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	95.09	382.42	357.82
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	4.09	10.29	8.69
Increase in the number of staff engaged in R&D (per 100 scientific staff)	5.56	-8	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	18.52	16	16
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	92.59	84	72
Number of trainings imparted (per 100 scientific staff)	27.78	32	36
Number of skill development programmes conducted (per 100 scientific staff)	1.85	2	2
Number of permanent scientists deputed to provide training (per 100 scientific staff)	29.63	36	34
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	29.63	44	46
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	83.33	100	76
Percentage of publications in top 10% journals	12.5	0	4.35
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	7.16	1.58	2.37
Number of IPRs granted (per Rs.10 Cr spent)	7.16	1.58	2.37
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	5.11	9.5	11.06
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.12	0.02	0.07
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.04	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.67	0.44	0.7
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.02	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.7	8	6
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	5.56	6	6
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	22.22	29.33	21.9
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	1.85	2	2
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	76.1	75.8	78.1
Percentage of organisation's budget spent on R&D and S&T	76.27	76.28	76.87
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	20.37	20	34
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	75.9	60	78
Percentage of women scientists and researchers to the total scientific and research staff	27.8	18	24
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.37	0.26	0.1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	66.67	72.72	65.38
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Institute of Animal Nutrition and Physiology

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research on physiology and nutrition for efficient livestock production and capacity development in animal nutrition and physiology
Improving production and reproductive efficieny in livestock through basic physiological and nutritional approaches

Location	Kolkata, West Bengal
Areas of Research: Animal Sciences	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	87	85	78
Staff engaged in R&D	64	62	57
Total Budget of the institution (Rs. Crores)	17.62	22.26	24.01

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	39.06	19.35	8.77
Number of projects executed (per 100 scientific staff)	75.00	77.42	73.68
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	3.13	4.84	26.32
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	20.43	43.13	25.41
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.84	1.35	0.83
Increase in the number of staff engaged in R&D (per 100 scientific staff)	3.13	-3.23	-8.77
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	20.31	17.74	31.58
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	75.00	93.55	84.21
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	278.13	446.77	585.96
Percentage of publications in top 10% journals	10.42	12.07	6.25
Number of IPRs filed (per Rs.10 Cr spent)	0	1.8	0.42
Number of IPRs granted (per Rs.10 Cr spent)	1.7	0.45	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.45	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0.9	0
Number of new services/products introduced (per Rs.10 Cr spent)	1.7	1.35	1.25
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.07	0.02
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.68	0.49	0.35
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	3.13	4.84	7.02
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	9.38	16.13	22.8
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	21.88	24.19	26.32
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	52.78	57.83	47.37
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	4.69	4.84	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	73.6	72.9	73.1
Percentage of organisation's budget spent on R&D and S&T	11.87	22.05	9.54
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	45.31	48.39	56.14
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	40.62	40.32	40.35
Percentage of women scientists and researchers to the total scientific and research staff	45.31	45.16	43.86
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.17	0.18	0.14
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10	10	10
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Institute of High Security Animal Diseases

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research on exotic, emerging and re-emerging animal diseases; Biorisk management and capacity building in the areas of biosafety, biosecurity and bio-containment for handling high risk pathogens.

Location	Bhopal, Madhya Pradesh
Areas of Research: Natural Resource Management	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	65	57	60
Staff engaged in R&D	41	34	36
Total Budget of the institution (Rs. Crores)	14.95	17.38	18.69

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.44	0	2.78
Number of projects executed (per 100 scientific staff)	43.9	50	50
Beneficiaries of lab's programmes	Government Departments	Government Departments	Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	4.88	11.76	5.56
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	6.69	9.78	4.82
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.67	1.73	0.54
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-12.2	-17.65	8.33
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	7.32	5.88	5.56
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	4.88	2.94	2.78
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	21.95	47.06	19.44
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	217.07	326.47	233.33
Percentage of publications in top 10% journals	11.11	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	1.34	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	2.01	1.73	1.07
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.07	0.54
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.96	1.25	0.65
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.2	0.09	0.19
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.44	2.94	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	4.88	14.71	5.56

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	12.2	17.65	19.44
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	19.51	25.34	10.47
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	2	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	63.1	59.6	60
Percentage of organisation's budget spent on R&D and S&T	13.5	14.87	12.54
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	68.3	64.7	69.4
Percentage of women scientists and researchers to the total scientific and research staff	43.9	32.4	30.6
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.11	0.1	0.08
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	33.3	38.8	33.3
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Institute of Natural Fibre Engineering and Technology

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research on processing of natural fibres and their agro-residues, development of value added products and quality assessment; Skill development and business incubation service on jute and allied fibre technologies

Location	Kolkata, West Bengal
Areas of Research: Agricultural Engineering	
Type of R&D performed	Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	103	104	108
Staff engaged in R&D	32	31	28
Total Budget of the institution (Rs. Crores)	21.6	23.56	23.56

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	6.25	6.45	0
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	6.25	0	3.57
Number of projects executed (per 100 scientific staff)	84.38	94	85.71
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	106.25	171	139.29
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	642.59	384.97	1386.25
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.46	0.42	0.42
Increase in the number of staff engaged in R&D (per 100 scientific staff)	9.38	-3	-10.71
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	2.78	1.27	1.7
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0.46	0	1.27
Number of new hires by the current incubatees (per Rs.10 Cr spent)	90.28	109.93	138.79
Number of consultancies undertaken for startups (per 100 scientific staff)	9.38	6	10.71
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	6.25	10	3.57
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	6.25	39	14.29
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	53.13	55	53.57
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	3.13	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	184.38	245	378.57
Percentage of publications in top 10% journals	0	0	6.7
Number of IPRs filed (per Rs.10 Cr spent)	1.39	0.85	1.27
Number of IPRs granted (per Rs.10 Cr spent)	1.85	0.42	0.85
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.42	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.46	0.42	0.42
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0.42	0
Number of new services/products introduced (per Rs.10 Cr spent)	1.39	0.85	1.27
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.04	0.04
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.05	0.06	0.04
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.7	0.58	0.36
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	9.38	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.13	3.23	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	21.88	32.26	35.71
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	31	30	26
Percentage of organisation's budget spent on R&D and S&T	1.94	4.03	2.4
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	19	19	25
Percentage of women scientists and researchers to the total scientific and research staff	3.1	6.5	3.6
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.18	0.14	0.15
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	27	9	27
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Institute of Veterinary Epidemiology and Disease Informatics

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To conduct R&D in the field of veterinary epidemiology and disease informatics; to develop disease models, risk analysis, animal disease forecasting & forewarning, need based diagnostics and informatics and economics of animal disease including zoonoses, repository and capacity development; to conduct training programmes on epidemiology, economic impact, sampling frame, GIS and RS and disease diagnosis.

Location	Bengaluru, Karnataka
Areas of Research: Animal Sciences	
Type of R&D performed	Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	83	89	92
Staff engaged in R&D	69	75	78
Total Budget of the institution (Rs. Crores)	11.81	15.22	14.18

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.9	2.67	2.56
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.45	1.33	0
Number of projects executed (per 100 scientific staff)	50.72	53.33	48.72
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	5.8	10.67	8.97
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	15.94	8	10.26
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	218.46	224.7	820.17
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.85	1.31	2.12
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.35	8	3.85
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	7.05
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	31.03
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	7.25	29.33	7.69
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	7.25	26.67	2.56
Number of trainings imparted (per 100 scientific staff)	27.54	24	12.82
Number of skill development programmes conducted (per 100 scientific staff)	27.54	24	26.92
Number of permanent scientists deputed to provide training (per 100 scientific staff)	13.04	12	11.54
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	50.72	42.67	47.44
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	2.67	6.41
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	247.83	260	303.85
Percentage of publications in top 10% journals	5.71	6.25	2.7
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	2.67	3.85
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	1.28
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0.85	0	0.71
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.85	0	0.71
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.69	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	5.93	3.29	3.53
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.1	0.07	0.04
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.73	3	2.22
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	1.57	0	0.78

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	8.7	8	6.41
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	5.8	2.67	12.82
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	15.94	12	12.82
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	37.63	37.33	36.27
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	1.28
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	83.1	84.3	84.8
Percentage of organisation's budget spent on R&D and S&T	98.25	97.97	98.16
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	14.49	8	17.95
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	10.1	9.3	11.5
Percentage of women scientists and researchers to the total scientific and research staff	4.3	4	3.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.42	0.5	0.53
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	38	68	38
Does the lab have incentives in place to promote talent?	No	No	No

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Research Center on Camel

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and applied research for improvement in camel health and production; Information repository on camel research and development; Development of camel eco-tourism.

Location	Bikaner, Rajasthan
Areas of Research: Animal Sciences	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	31	27	26
Staff engaged in R&D	14	14	15
Total Budget of the institution (Rs. Crores)	10.1	15.67	5.44

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	14.29	28.57	6.67
Number of projects executed (per 100 scientific staff)	142.86	135.71	126.67
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry	Individuals, NGOs, Industry
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	42.86	78.57	40
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	242.57	1659.22	1630.51
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-7.14	0	6.67
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	28.57	7.14	6.67
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	457.14	742.86	1160
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	78.57	100	100
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	357.14	478.57	320
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0.99	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	1.84
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.99	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	1.98	1.91	1.84
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.57	0.34	0.94
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.16	0.11	0.85
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	6.67
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	21.43	28.57	33.33
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	42.31	89.66	68.42
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	45.16	51.85	57.69
Percentage of organisation's budget spent on R&D and S&T	4.15	3.03	10.11
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	35.71	14.29	6.67
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	42.86	42.86	33.33
Percentage of women scientists and researchers to the total scientific and research staff	14.29	21.43	33.33
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.2	0.1	0.36
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Research Centre for Banana

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic, strategic and applied research on genetic resource management, crop improvement and production technologies for sustainable and enhanced production and utilization of banana; National banana gene bank management, coordination and validation of research for enhancing and sustaining the productivity of banana; Transfer of technology and capacity building of stakeholders for enhanced and sustained production of banana; Referral Laboratory for monitoring the quality of micro-propagated banana plants.

Location Thayanur, Tamil Nadu

Areas of Research: Horticultural Sciences

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	77	91	102
Staff engaged in R&D	51	65	76
Total Budget of the institution (Rs. Crores)	10.46	14.36	11.95

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5.88	6.15	5.26
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5.88	4.62	3.95
Number of projects executed (per 100 scientific staff)	58.82	75.38	71.05
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	9.8	6.15	2.63
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	118.55	168.52	118.83
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	8.6	5.57	5.02
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-1.96	21.54	14.47
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	29.41	23.08	19.74
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	43.14	24.62	19.74
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	15.69	18.46	26.32
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	66.67	76.92	100
Percentage of publications in top 10% journals	12.5	8.33	5
Number of IPRs filed (per Rs.10 Cr spent)	2.87	0.7	1.67
Number of IPRs granted (per Rs.10 Cr spent)	6.69	3.48	1.67
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.7	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	3.82	6.27	4.18
Number of new services/products introduced (per Rs.10 Cr spent)	11.47	10.45	11.72
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.08	0.01	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	3.09	0.57	0.23
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.28	2.17	2.15
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.6	0.33	0.44
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.96	1.54	1.32
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.92	3.08	5.26
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	1.32

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	11.76	32.31	28.95
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	3.49	7.1	7.18
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	66.23	71.43	74.51
Percentage of organisation's budget spent on R&D and S&T	13.29	18.66	23.45
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	27.45	24.62	15.79
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	66.67	73.85	77.63
Percentage of women scientists and researchers to the total scientific and research staff	27.45	36.92	36.84
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.23	0.06	0.28
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	22.22	17.64	100
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Research Centre for Grapes

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Strategic and applied research on safe grape production and productivity; National Referral Laboratory for Food Safety and Pesticide residue in fruits; Transfer of technology and capacity building of stakeholders for enhanced and sustained production of grapes.

Location Pune, Maharashtra

Areas of Research: Horticultural Sciences

Type of R&D performed Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	73	69	72
Staff engaged in R&D	51	47	49
Total Budget of the institution (Rs. Crores)	9.16	10.62	11.71

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	11.76	8.51	6.12
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	19.61	17.02	16.33
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	7.84	4.26	4.08
Number of projects executed (per 100 scientific staff)	221.57	261.7	263.27
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	7.84	6.38	6.12
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	62.75	106.38	89.8
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	592.79	423.73	588.39
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.09	0	0.85
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-11.76	-8.51	4.08
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	9.8	17.02	24.49
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	31.37	19.15	32.65
Number of trainings imparted (per 100 scientific staff)	37.25	36.17	26.53
Number of skill development programmes conducted (per 100 scientific staff)	27.45	21.28	18.37
Number of permanent scientists deputed to provide training (per 100 scientific staff)	3.92	21.28	22.45
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	27.45	44.68	48.98
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	19.61	8.51	4.08
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	164.71	257.45	202.04
Percentage of publications in top 10% journals	7.14	14.29	8.33
Number of technology documents prepared in the last three years (per 100 scientific staff)	23.53	17.02	10.2
Number of national and international recognitions received by the lab (per 100 scientific staff)	11.76	19.15	20.41
Number of reports leading to designs and products (per 100 scientific staff)	0	0	2.04
Number of IPRs filed (per Rs.10 Cr spent)	2.18	2.82	0.85
Number of IPRs granted (per Rs.10 Cr spent)	9.83	0	0.85
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.94	0.85
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	3.28	1.88	0.85
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	15.28	9.42	11.1
Number of new services/products introduced (per Rs.10 Cr spent)	8.73	5.65	5.12
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.65	0.72	0.3
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	3.36	4.96	9.88
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	3.53	3.23	3.32

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	3.92	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	2.13	4.08
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.96	4.26	4.08
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	7.84	6.38	10.2
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	12.48	15.64	18.37
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	69.86	68.12	68.06
Percentage of organisation's budget spent on R&D and S&T	23.59	17.13	21.03
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	7.84	10.64	10.2
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	82.35	80.85	83.67
Percentage of women scientists and researchers to the total scientific and research staff	50.98	51.06	48.98
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.13	0.17	0.07
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	26.66	37.5	40
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Research Centre for Integrated Pest Management

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Information and Communications Technology (ICT) based surveillance, monitoring of pest population, research and promotion of pest smart IPM technologies for major crops.On-farm validation of IPM technologies, forging linkages with commodity based crop research Institutes, AICRP/ AINP and capacity building.

Location New Delhi

Areas of Research: Crop Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	51	50	48
Staff engaged in R&D	30	35	36
Total Budget of the institution (Rs. Crores)	13.81	17.24	16.25

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	20	17.14	16.67
Number of projects executed (per 100 scientific staff)	110	88.57	100
Beneficiaries of lab's programmes	Individuals	Individuals	Individuals
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0	0	0
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	13.03	14.5	16.62
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	6.67	14.29	2.78
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	20	22.86	80.56
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	0	0	0
Percentage of publications in top 10% journals	16.67	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	3.62	3.48	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	5.07	4.06	4.31
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.35	0.6	0.12
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.73	0.64	0.66
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.59	0.44	0.53
Number of international collaborative projects executed with industry (per 100 scientific staff)	3.33	2.86	2.78
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	6.67	0	2.78

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	6.67	2.86	2.78
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	13.33	8.57	8.33
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	58.82	70	75
Percentage of organisation's budget spent on R&D and S&T	53	57	68
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	40	48	55
Percentage of women scientists and researchers to the total scientific and research staff	20	28	23
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	0.4	0.4	0.3
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	43	46	48
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Research Centre on Equine

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and strategic research on equine health and production To provide advisory and consultancy services and capacity development

Location	Hisar, Haryana
Areas of Research: Animal Sciences	
Type of R&D performed	Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	99	96	96
Staff engaged in R&D	44	44	43
Total Budget of the institution (Rs. Crores)	18.06	22.67	23.18

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	4.55	4.55	9.3
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	4.55	4.55	9.3
Number of projects executed (per 100 scientific staff)	81.82	81.82	76.74
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	4.55	4.55	16.28
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	37.1	59.55	6.04
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.11	0.88	0.43
Increase in the number of staff engaged in R&D (per 100 scientific staff)	7	0	2
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	38.64	47.73	11.63
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	131.82	181.82	46.51
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	45.45	36.36	48.84
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	286.36	384.09	362.79
Percentage of publications in top 10% journals	10	0	4.76
Number of IPRs filed (per Rs.10 Cr spent)	0	0.88	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0.88	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.44	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0.43
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0.88	0.43
Number of new services/products introduced (per Rs.10 Cr spent)	5.54	0	2.59
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.3	0.28	0.22
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.49	0.25	0.44
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.02	0.03	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	4.55	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	9.09	6.82	4.65
Number of national collaborative projects executed with industry (per 100 scientific staff)	2.27	2.27	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	38.64	34.09	34.88
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	13.99	10.91	27.13
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	44.44	45.83	44.79
Percentage of organisation's budget spent on R&D and S&T	99.99	99.98	99.98
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	6.82	29.55	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	52	59	63
Percentage of women scientists and researchers to the total scientific and research staff	32	25	30
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	100	100	100
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	42.86	40.91
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Research Centre for Orchids

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Applied and strategic research on conservation, improvement and culture of orchids for enhancing productivity and utilization; Transfer of technology and capacity building of stakeholders for enhancing and sustaining productivity of orchids.

Location Pakyong, Sikkim

Areas of Research: Horticultural Sciences

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	45	39	42
Staff engaged in R&D	24	18	21
Total Budget of the institution (Rs. Crores)	6.67	6.2	5.26

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	41.67	44.44	33.33
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	8.33	11.11	4.76
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.5	1.61	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	-33.33	14.29
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	12.5	27.78	38.1
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	50	11.11	23.81
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	3.8
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.78	0.45	1.01
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	16.67	16.67	9.52
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	18.52	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	2	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	53	46	50
Percentage of organisation's budget spent on R&D and S&T	50	7.29	10.67
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	75	72.2	81
Percentage of women scientists and researchers to the total scientific and research staff	37.5	27.8	23.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.27	0.3	0.24
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	15	25	20
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Research Centre on Meat

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic and applied research in meat science and technology for meat production, processing, value addition, and utilization; Capacity development for different levels of personnel in the meat sector; National repository of information in meat and allied sectors

Location	Hyderabad, Telangana
Areas of Research: Animal Sciences	
Type of R&D performed	Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	32	32	39
Staff engaged in R&D	19	20	27
Total Budget of the institution (Rs. Crores)	6.82	7.4	10.69

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	15.79	15	14.81
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	15.79	15	14.81
Number of projects executed (per 100 scientific staff)	94.74	90	92.59
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	0	0
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	78.95	75	55.56
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	145.16	290.54	248.83
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	4.4	1.35	3.74
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-5.26	5	25.93
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	5.87	4.05	5.61
Number of incubated startups successfully exited (per Rs.10 Cr spent)	4.4	2.7	2.81
Number of new hires by the current incubatees (per Rs.10 Cr spent)	41.06	16.22	39.29
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	21.05	25	11.11
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	84.21	135	55.56
Number of trainings imparted (per 100 scientific staff)	42.11	60	55.56
Number of skill development programmes conducted (per 100 scientific staff)	21.05	25	25.93
Number of permanent scientists deputed to provide training (per 100 scientific staff)	15.79	15	11.11
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	68.42	80	70.37
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	10.53	10	14.81
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	147.37	150	222.22
Percentage of publications in top 10% journals	7.69	0	5.26
Number of technology documents prepared in the last three years (per 100 scientific staff)	15.79	15	14.81
Number of national and international recognitions received by the lab (per 100 scientific staff)	15.79	35	11.11
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	2.93	1.35	0
Number of IPRs granted (per Rs.10 Cr spent)	1.47	0	1.87
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	10.26	9.46	5.61
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	2.93	4.05	4.68
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.18	0.22	0.17
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.27	0.38	0.28
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.2	1.74	3.82
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.03	0.01	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	15.79	10	3.7
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	10.53	10	11.11
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	53.22	76.19	43.3
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	59.4	62.5	69.2
Percentage of organisation's budget spent on R&D and S&T	14.27	14.54	31.32
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	42.11	45	181.48
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	36.8	40	51.9
Percentage of women scientists and researchers to the total scientific and research staff	26.3	25	40.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0.01	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	60	40	56
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Research Centre on Mithun

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Formulation and adoption of scientific management, feeding practices and advanced bio-techniques for reproduction and health to develop an economically viable and sustainable technologies; Identification, Evaluation, and Characterization of Mithun germplasm available in the country; Conservation and improvement of Mithun for meat and milk; To act as a repository of germplasm and information center on Mithun

Location	Medziphema, Nagaland
Areas of Research: Animal Sciences	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	33	35	35
Staff engaged in R&D	13	16	16
Total Budget of the institution (Rs. Crores)	11.16	12.04	10.54

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	7.69	18.75	6.25
Number of projects executed (per 100 scientific staff)	76.92	37.5	62.5
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	38.46	18.75	37.5
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	60.93	88.87	22.77
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.69	3.32	3.8
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-23.08	18.75	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	84.62	100	37.5
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	107.69	268.75	187.5
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	1.9
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.95
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.79	2.49	0.95
Number of new services/products introduced (per Rs.10 Cr spent)	6.27	4.15	3.8
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.29	0.16	0.08
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	6.25	6.25

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	37.61	25	18.75
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	39.4	45.7	45.7
Percentage of organisation's budget spent on R&D and S&T	11.39	14.11	13.8
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	7.69	6.25	6.25
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	7.7	12.5	12.5
Percentage of women scientists and researchers to the total scientific and research staff	15.4	18.8	18.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.17	0.34	0.32
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	57.14	58.33	66.66
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Research Centre on Pig

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To act as a repository of information on pig production and health for regional, national and global policy planning and implementation; To undertake basic, strategic and applied research in the areas of pig production and health including product/by-product processing, value addition through quality control measures and transfer of the evolved technologies to the client groups.

Location Guwahati, Assam

Areas of Research: Animal Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	72	75	92
Staff engaged in R&D	20	23	31
Total Budget of the institution (Rs. Crores)	9.82	10.99	9.87

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	35	30.43	22.58
Number of projects executed (per 100 scientific staff)	75	52.17	22.58
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	10	30.43	22.58
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	325.87	327.57	344.48
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.04	2.73	3.04
Increase in the number of staff engaged in R&D (per 100 scientific staff)	10	13.04	25.81
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	3.04
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	20.26
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	25	13.04	48.39
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	5	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	55	47.83	54.84
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	15	8.7	9.68
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	130	147.83	87.1
Percentage of publications in top 10% journals	0	0	17.65
Number of IPRs filed (per Rs.10 Cr spent)	0	0	10.13
Number of IPRs granted (per Rs.10 Cr spent)	0	0.91	9.12
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	3.05	1.82	3.04
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	3.04
Number of new services/products introduced (per Rs.10 Cr spent)	4.07	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.01	0.01
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	3.32	2.21	2.24
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	4.35	3.22

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	40	21.74	16.13
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	6.88	2.28	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	4.35	3.23
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	27.78	30.67	33.7
Percentage of organisation's budget spent on R&D and S&T	26	24.7	25.86
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	20	8.7	6.45
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	5	26.09	35.48
Percentage of women scientists and researchers to the total scientific and research staff	5	13.04	12.9
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	0.25	0.45	0.22
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	22	100	55.56
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Research Centre on Pomegranate

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic, strategic and applied research on genetic resource management, crop improvement, production and protection technology for enhancned and sustained productivity of pomegranate; Transfer of technology and capacity buidling of stakeholdrs for enhancing and sustaining productivity of pomegranate Mission: To establish an international repository of genetic resources, develop suitable technologies for pomegranate production and to improve economic status of farmers in different regions. Vision: To transform the ICAR- National Research Centre on Pomegranate to an International Centre for pomegranate research

Location Solapur, Maharashtra

Areas of Research: Horticultural Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	24	24	24
Staff engaged in R&D	16	16	16
Total Budget of the institution (Rs. Crores)	7.96	9.26	7.71

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	12.5	31.25	12.5
Number of projects executed (per 100 scientific staff)	187.5	181.25	175
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	187.5	0	43.75
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	163.32	328.29	343.71
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	13.82	14.04	14.27
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-12.5	0	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	106.25	43.75	143.75
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	68.75	31.25	50
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	18.75	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	93.75	162.5	156.25
Percentage of publications in top 10% journals	0	0	12.5
Number of IPRs filed (per Rs.10 Cr spent)	0	6.25	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	2.51	7.56	2.59
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	3.77	3.24	3.89
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	2.51	7.56	2.59
Number of new services/products introduced (per Rs.10 Cr spent)	10.05	8.64	10.38
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.96	0.65	0.6
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	10.15	10.89	10.08
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	1.28	0.82	0.86
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	6.25	6.25	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	31.25	18.75	25
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	4.3	0	16.67
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	66.6	66.6	66.6
Percentage of organisation's budget spent on R&D and S&T	36.57	33.07	25.22
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	6.25	0	6.25
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	31.25	31.25	31.25
Percentage of women scientists and researchers to the total scientific and research staff	37.5	37.5	37.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.56	0.09	0.71
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	9.09	18.18	27.27
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Research Centre on Seed Spices

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Basic, strategic and applied research on genetic resource management, crop improvement, production and protection technologies for enhancing and sustaining productivity of safe seed spices; Transfer of technology and capacity building of stakeholders for enhancing and sustaining productivity of seed spices

Location	Ajmer, Rajasthan
Areas of Research: Horticultural Sciences	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	35	34	33
Staff engaged in R&D	21	22	22
Total Budget of the institution (Rs. Crores)	8.62	10.49	9.65

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	57.14	31.82	22.73
Number of projects executed (per 100 scientific staff)	57.14	31.82	22.73
Beneficiaries of lab's programmes	Individuals	Individuals	Individuals
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	23.81	31.82	40.91
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1008.12	847.47	629.02
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.16	0.95	1.04
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-47.62	4.55	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	19.05	9.09	4.55
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	80.95	36.36	27.27
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	128.57	140.91	177.27
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	1.16	1.91	5.18
Number of IPRs granted (per Rs.10 Cr spent)	2.32	0.95	5.18
Number of IPRs licensed out (per Rs.10 Cr spent)	2.32	4.77	1.04
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	2.32	4.77	1.04
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.04	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.04	0.02
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.1	0.05	0.16
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	4.55	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	4.76	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	32.38	10.39	3.15
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	No	No	No
Percentage of permanent scientists and contractual researchers	60	64.7	66.7
Percentage of organisation's budget spent on R&D and S&T	13.34	8	10
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	4.76	4.55	4.55
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	33.3	36.4	31.8
Percentage of women scientists and researchers to the total scientific and research staff	4.8	4.5	4.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.72	1.64	1.15
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	16.6	21	21
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-National Research Centre on Yak

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: To improve yak husbandry and socio-economic condition of yak farmers in the country, to conduct mission oriented research on addressing the core development issues of yak husbandry through scientific yak rearing amidst the daunting challenges of surging food demand, stressed surroundings and struggling supply of inputs.

Location Dirang, Arunachal Pradesh

Areas of Research: Animal Sciences

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	35	34	33
Staff engaged in R&D	10	13	10
Total Budget of the institution (Rs. Crores)	8.52	10.16	10.71

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	20	23.08	20
Number of projects executed (per 100 scientific staff)	110	84.62	120
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0	15.38	10
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	3.52	0.98	4.67
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.17	0.98	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	30.77	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	7.69	10
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	30	100	60
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	210	115.38	180
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.34	0.49	0.42
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	40	46.15	80
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	30	75	60
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	7.69	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	28.6	38.2	30.3
Percentage of organisation's budget spent on R&D and S&T	7.6	8.95	5.85
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	7.69	10
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	70	76.9	70
Percentage of women scientists and researchers to the total scientific and research staff	20	23.1	20
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	0.04	0.19	0.03
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	42.9	50	20
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Research Complex for Eastern Region

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: Strategic and adaptive research for efficient integrated management of natural resources to enhance the productivity of agricultural production systems in the eastern region; Transform low productivity-high potential eastern region into high productivity region for food, nutritional, and livelihood security; Utilization of seasonally waterlogged and perennial water bodies for multiple uses of water; Promote network and consortia research in the eastern region

Location Patna, Bihar

Areas of Research: Natural Resource Management

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	157	167	161
Staff engaged in R&D	81	89	86
Total Budget of the institution (Rs. Crores)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	38.27	34.83	36.05
Number of projects executed (per 100 scientific staff)	102.47	115.73	130.23
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry , Government Departments	Individuals, NGOs, Industry , Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	7.41	8.99	4.65
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1488.07	1674.04	912.46
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	2.47	8.99	-3.49
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	58.02	44.94	81.4
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	13.58	11.24	8.14
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	111.11	130.34	237.21
Percentage of publications in top 10% journals	10.64	2.5	5.71
Number of IPRs filed (per Rs.10 Cr spent)	0.33	0.29	1.85
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.26
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.33	0.29	0.79
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	9.81	2.91	2.91
Number of new services/products introduced (per Rs.10 Cr spent)	2.29	0.29	0.53
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.01	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.24	0.61	1.06
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.04	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	4.94	3.37	13.95

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	9.88	10.11	11.63
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	20.95	11.24	22.38
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	51.6	53.3	53.4
Percentage of organisation's budget spent on R&D and S&T	8.81	9.68	13.47
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	70.4	59.6	59.3
Percentage of women scientists and researchers to the total scientific and research staff	16	15.7	18.6
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.08	0.13	0.07
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	24.62	17.57	17.81
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICAR-Sugarcane Breeding Institute

Ministry/Department/Organisation: Indian Council of Agricultural Research

Mandate of the institution: The mandate of the Sugarcane Breeding Institute is to evolve superior sugarcane varieties and develop crop production and protection technologies suited for different agro-climatic regions of the country to make sugarcane agriculture sustainable, profitable and more efficient in the use of natural resources; Basic and strategic research on crop improvement, production and protection aspects of sugarcane; Collection, maintenance, evaluation, documentation and conservation of genetic resources of sugarcane / Saccharum species; Dissemination of technologies and capacity building

Location Coimbatore, Tamil Nadu

Areas of Research: Crop Sciences

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	167	169	172
Staff engaged in R&D	86	87	87
Total Budget of the institution (Rs. Crores)	37.01	47.21	46.19

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	33.72	19.54	22.99
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	19.77	22.99	24.14
Number of projects executed (per 100 scientific staff)	43.02	41.38	40.23
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	33.72	27.59	37.93
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	115.37	127.52	431.7
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.08	0.42	0.22
Increase in the number of staff engaged in R&D (per 100 scientific staff)	6.98	1.15	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	39.53	43.68	40.23
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	112.79	220.69	95.4
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	44.19	27.59	47.13
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	1.16	0	1.15
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	153.49	174.71	180.46
Percentage of publications in top 10% journals	2.63	8.33	4.88
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0.87
Number of IPRs granted (per Rs.10 Cr spent)	0.54	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0.54	0.64	1.08
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.54	1.06	1.08
Number of new services/products introduced (per Rs.10 Cr spent)	0.27	0.42	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.01	0.01
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.1	0.06	0.08
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.76	0.91	0.65
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	1.16	1.15	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	6.98	8.05	5.75
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	1.15	1.15

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	5.81	5.75	4.6
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	44.19	27.59	49.74
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	51.5	51.48	50.58
Percentage of organisation's budget spent on R&D and S&T	16.25	21.81	24.69
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	4.65	2.3	2.3
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	27.9	27.59	36.8
Percentage of women scientists and researchers to the total scientific and research staff	37.21	42.53	43.68
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.24	0.3	0.65
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	12	17.57	10.96
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

INDIAN COUNCIL OF MEDICAL RESEARCH

Serving the nation since 1911

Government of India

ICMR-National Centre for Disease Informatics and Research

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: To coordinate programmes of surveillance on NCDs through the development of national databases on Non-communicable diseases like cancer, cardiovascular diseases, stroke, diabetes and its risk factors; to generate reliable data on magnitude and patterns of disease, patterns of patient care,survival and cause of death and risk factors of NCDs, through multi centric registry / collaborative studies, so as to answer questions on disease burden and risk factors of NCDs in different population and demographic settings.

Location Bengaluru, Karnataka

Areas of Research: Medical Research Support Organizations

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	80	97	103
Staff engaged in R&D	27	29	35
Total Budget of the institution (Rs. Crores)	30.23	24.28	36.81

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	37.04	55.17	51.43
Number of projects executed (per 100 scientific staff)	81.48	113.79	97.14
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	44.44	31.03	20
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	224.94	323.31	421.08
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.66	2.06	0.27
Increase in the number of staff engaged in R&D (per 100 scientific staff)	37.04	6.9	17.14
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	11.11	3.45	31.43
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	11.11	51.72	17.14
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	14.81	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	2203.7	3813.79	4668.57
Percentage of publications in top 10% journals	33.33	46.67	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.99	0.41	0.27
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.99	3.29	1.63
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0.08	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	3.7	3.45	2.86
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	7.41	37.93	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	77.78	110.34	88.57
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	3.97	21.3	6.86
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	34	30	34
Percentage of organisation's budget spent on R&D and S&T	94.79	61.91	93.51
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	70	76	74
Percentage of women scientists and researchers to the total scientific and research staff	52	52	60
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	1.61	1.33	2.93
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	18	33
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-National Institute for Research in Environmental Health

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: To understand the mechanisms of environmental toxin-induced health repercussions through basic; clinical; community; and translational research and to develop diagnostic and therapeutic modalities.

Location	Bhopal, MP
Areas of Research: Containment within safety limits of environmental and occupational health problems	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	80	103	98
Staff engaged in R&D	35	54	55
Total Budget of the institution (Rs. Crores)	1.47	1.33	4.10

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	22.86	35.19	36.36
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	2.86	1.85	1.82
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	190.74	337.58	173
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	6.81	7.5	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	20	31.48	12.73
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	2.86	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	No	No
Number of interns trained (per 100 scientific staff)	80	83.33	129.09
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	40	48.15	47.27
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	291.43	1420.37	527.27
Percentage of publications in top 10% journals	14.29	26.92	3.85
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.14	0.12	0.09
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	14.09	24.67	3.8
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.86	1.85	1.82
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	11.43	20.37	16.37

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	2.86	1.85	1.82
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	5.71	7.41	5.45
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	4.44	1.93	1.1
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	2.86	7.41	1.82
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	43.75	52.42	56.12
Percentage of organisation's budget spent on R&D and S&T	18.5	22.29	28.9
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	1.82
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	27.5	37.86	39.79
Percentage of women scientists and researchers to the total scientific and research staff	16.25	14.56	17.34
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.01	0.01	0.01
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	25	25	25
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-National Institute for Research In Reproductive Health

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: To conduct biomedical, clinical, operational, and socio behavioural research on various aspects of reproductive health, to strengthen research capacities by way of providing specialized training in reproductive health research through regular academic programmes and other short term training programmes, to facilitate propagation of research observations into policy making and planning at national level and also translation of research innovations to commercial products, to provide consultations to other institutions, to collaborate with national and international organizations in an effort to promote research and research capacity strengthening in reproductive health; and to disseminate information pertaining to advances in reproductive health research among researchers; and spreading knowledge and awareness on reproductive health issues among underserved communities.

Location	Mumbai, Maharashtra
Areas of Research: Fertility control, Maternal and child health	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	300	329	343
Staff engaged in R&D	115	147	167
Total Budget of the institution (Rs. Crores)	50	60	65

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.74	2.04	1.8
Number of projects executed (per 100 scientific staff)	86.09	68.03	56.89
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0.87	0.68	1.8
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	77.2	27.5	44.46
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.6	0.67	1.38
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-2.61	21.77	11.98
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	7.83	4.76	2.4
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	43.48	36.05	28.74
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0.87	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	48.7	53.74	32.93
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	438.26	346.26	293.41
Percentage of publications in top 10% journals	12.5	10.13	7.27
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0.4	0	0.15
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.01	0.01
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.61	0.7	1.66
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.16	0.1	0.13
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.87	0.68	1.2
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	7.83	12.92	4.79
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	30.43	21.77	13.77
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	13.28	17.43	18.15
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	2	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	38.33	44.68	48.68
Percentage of organisation's budget spent on R&D and S&T	71.6	71.77	71.95
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.61	2.04	1.2
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	76	82	85
Percentage of women scientists and researchers to the total scientific and research staff	73.91	69.38	70.05
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	0.04	0.09	0.06
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-National Institute for Research in Tuberculosis

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: To provide scientific understanding and technologies needed to support the fight against TB; todevelop the National Institute for Research in Tuberculosis into: a centre of excellence for research in TB; an opinion leader on TB control policies; a core facility for training for TB research and control; a nodal agency for advocacy for TB control in India; to support and promote Directly Observed Treatment Short-course (DOTS) in the Revised National Tuberculosis Control Programme (RNTCP) of the Government of India by providing better tools and refining existing tools for diagnosis, treatment and monitoring of TB through controlled clinical trials and scientific research; to provide training programs to researchers and programme personnel in both basic and clinical sciences

Location Shamirpet, Turkapally, Telangana

Areas of Research: Major non-communicable diseases

Type of R&D performed Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	901	962	1475
Staff engaged in R&D	106	121	154
Total Budget of the institution (Rs. Crores)	15.12	16.7	58.3

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	12.26	9.09	9.74
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	6.6	6.61	5.19
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.83	3.31	3.25
Number of projects executed (per 100 scientific staff)	51.89	55.37	51.3
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	1.65	0.65
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	14.15	10.74	9.09
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	119.05	111.38	25.9
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	1.8	0.17
Increase in the number of staff engaged in R&D (per 100 scientific staff)	21.7	12.4	21.43
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	4.72	3.31	3.25
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	148.11	145.45	66.88
Number of trainings imparted (per 100 scientific staff)	4.72	11.57	4.55
Number of skill development programmes conducted (per 100 scientific staff)	1.89	0.83	0.65
Number of permanent scientists deputed to provide training (per 100 scientific staff)	3.77	3.31	4.55
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	74.53	72.73	46.1
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	3.31	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	2033.96	1500	628.57
Percentage of publications in top 10% journals	7.59	12.5	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	0.94	0.83	0.65
Number of national and international recognitions received by the lab (per 100 scientific staff)	1.89	0.83	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0.17
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.6	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	3.97	1.2	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	4.91	1.71	8.42
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	5.09	8.29	2.09

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	21.7	22.31	14.94
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	34.91	44.63	30.52
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0.83	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	22.64	19.83	22.08
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	21.92	28.79	23.05
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	11.8	12.5	10
Percentage of organisation's budget spent on R&D and S&T	49	37	29
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.83	4.13	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	74.5	76.9	76.62
Percentage of women scientists and researchers to the total scientific and research staff	38.6	47	47.4
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.02	0.02	0.62
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-National Institute of Cancer Prevention and Research

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: To implement pragmatic programs, innovations and activities in studying the prevalent cancers in India; to explore multistep process of cancer development in finding the culturally appropriate solutions for prevention and early detection prevalent cancers

Location	Noida, Uttar Pradesh
Areas of Research: Major non-communicable diseases	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	68	69	131
Staff engaged in R&D	38	44	77
Total Budget of the institution (Rs. Crores)	13.6	14.78	88.77

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	84.21	95.45	64.94
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	23.68	22.73	10.39
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	339.71	451.96	172.69
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.94	5.41	1.13
Increase in the number of staff engaged in R&D (per 100 scientific staff)	42.11	13.64	42.86
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	57.89	59.09	33.77
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	65.79	77.27	53.25
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	100	197.73	68.83
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	2.63	4.55	1.3
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	1352.63	1752.27	1383.12
Percentage of publications in top 10% journals	26.32	17.24	9.43
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.74	0	5.97
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.74	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.05	0.03	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	10.24	2.43	0.67
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.1	0.53	0.08
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.63	4.55	3.9
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	39.47	63.63	14.28

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	26.32	27.27	18.18
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	26	62.91	32.87
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	55.9	63.8	58.8
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.63	2.27	2.6
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	13.2	11.4	19.5
Percentage of women scientists and researchers to the total scientific and research staff	34.2	25	26
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.11	0.1	0.08
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	55.6	71.4	66.7
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-National Institute of Cholera and Enteric Diseases

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: Mandate of the Institute -Research on acute diarrhoeal diseases of diverse etiologies as well as on typhoid fever, infective hepatitis, Vector Borne Disease, antimicrobial resistance and HIV/AID

Location Kolkata, West Bengal

Areas of Research: Control and management of communicable diseases

Type of R&D performed Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	383	320	363
Staff engaged in R&D	111	104	105
Total Budget of the institution (Rs. Crores)	37.28	34.08	36.72

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	7.21	1.92	4.76
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.9	0	2.86
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.9	1.92	4.76
Number of projects executed (per 100 scientific staff)	46.85	57.69	60.95
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0.9	0.96	1.9
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	9.91	4.81	6.67
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	86.65	130.28	152.5
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.54	0	0.27
Increase in the number of staff engaged in R&D (per 100 scientific staff)	16.22	-6.73	0.95
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	4.5	7.69	4.76
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	41.44	47.12	57.14
Number of trainings imparted (per 100 scientific staff)	9.01	12.5	15.24
Number of skill development programmes conducted (per 100 scientific staff)	9.01	12.5	15.24
Number of permanent scientists deputed to provide training (per 100 scientific staff)	9.01	14.42	21.9
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.96	1.9
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	52.25	58.65	55.24
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	680.18	728.85	656.19
Percentage of publications in top 10% journals	8.62	13.11	6.9
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0.96	1.9
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0.27	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0.27	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.27	0.59	0.27
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.27	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0.27
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.08	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.01	0.01
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.33	4.38	2.4
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	1.2	0.41	1.29

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	5.41	4.81	4.76
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	16.21	24.04	23.81
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	6.31	17.31	16.19
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	27.81	22.25	16.81
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	29	32.5	28.9
Percentage of organisation's budget spent on R&D and S&T	52.3	44.9	47.15
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	5.41	8.65	7.62
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	83	81	81
Percentage of women scientists and researchers to the total scientific and research staff	41	43	48
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.06	0.02	0.01
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	No	No	No

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-National Institute of Immunohaematology

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: To carry out quality research in the core areas of Immunohaematology i.e Transfusion Medicine, Hemoglobinopathie, Coagulation Disorders, Marrow Failure Syndromes, Hematological Malignancies, Primary Immunodeficiencies and Autoimmune Disorders & Transfusion Transmitted Diseases; To facilitate coordinated network research programs to addresss the needs and priorities of the country for dealing with the common immunohaematological problems; To carry on R & D programs directed towards indigenous diagnostic techniques with National objective of Self-Reliance; To develop comprehensive diagnostic services for patients immunohaematological disorders and act as a National Referral Centre; To reach out to underprivileged communities in the country and acreen, educate, counsel an prevent the common hematological disordes within the communities; To Conduct various training programme and workshops and to enroll students for M.Sc, Ph.D, DM & PDF programmes

Location Mumbai, Maharashtra

Areas of Research: Major non-communicable diseases

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	136	133	177
Staff engaged in R&D	39	37	51
Total Budget of the institution (Rs. Crores)	9.99	15.24	17.4

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	35.9	75.68	76.47
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0	2.7	0
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	127.13	94.49	195.4
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1	0.66	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	10.26	-5.41	27.45
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	10.26	16.22	11.76
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	12.82	16.22	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	115.38	118.92	82.35
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	623.08	610.81	315.69
Percentage of publications in top 10% journals	2.22	0	0
Number of IPRs filed (per Rs.10 Cr spent)	2	0	0.57
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.86	1.54	0.78
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	12.82	27.03	9.8
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	5.13	5.41	3.92
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	No	Yes
Has the strategy worked towards solving these social or economic problems?	No	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	28.68	27.82	28.81
Percentage of organisation's budget spent on R&D and S&T	19.5	7.14	10.03
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.56	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	67	73	80
Percentage of women scientists and researchers to the total scientific and research staff	69	76	75
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.01	0.01	0.01
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	15	15	8
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-National Institute of Nutrition

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: Periodic Assessment of Nutrient intakes, Health and Nutrition status of the population for optimal health, and assist the Government and regulatory bodies in policy making; Establishment of Dietary Reference Intake values, Recommended Dietary allowances, Dietary guidelines for Indian population; and assessment of Nutrient Composition of Foods; Identify various nutrition deficiency disorders prevalent among different segments of the population; Conduct operational research for planning and implementation of National Nutrition Programmes in the country; Conduct surveys and study the risk factors of NCDs through multidisciplinary research; Conduct innovative basic science research on nutrient metabolism, interactions, requirements and responses
Identify and study food and environmental safety challenges for providing scientific input for policy and regulation; Development of human resource in nutrition and also provide evidence-based nutrition knowledge to the community

Location Hyderabad, Telangana

Areas of Research: Control of Nutritional Disorders

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	684	684	659
Staff engaged in R&D	88	77	83
Total Budget of the institution (Rs. Crores)	106.96	126.15	135.1

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	4.55	2.6	3.61
Number of projects executed (per 100 scientific staff)	71.59	67.53	56.63
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	161.36	196.1	115.66
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	18.7	15.85	14.8
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.65	0.55	0.44
Increase in the number of staff engaged in R&D (per 100 scientific staff)	3.41	-14.29	7.23
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	26.14	24.68	42.17
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	307.95	694.81	540.96
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	1.14	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	102.27	133.77	95.18
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	17.05	12.99	8.43
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	711.36	1507.79	2126.51
Percentage of publications in top 10% journals	13.33	7.77	8.86
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0.07
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.09	0.08	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.93	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.91	0.84	0.89
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.32	0.26	0.23
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	4.55	7.79	6.02
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	30.68	23.38	22.89

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	5.68	3.9	2.41
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	11.36	7.79	4.82
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	1.36	4.56	1.22
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	12.9	11.3	12.6
Percentage of organisation's budget spent on R&D and S&T	60	60	60
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	10.23	19.48	10.84
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	77.3	98.7	78.3
Percentage of women scientists and researchers to the total scientific and research staff	22.7	31.2	22.9
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	18	18	18
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	5	5	5
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-National Institute of Occupational Health

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: The Indian Council of Medical Research-National Institute of Occupational Health (ICMR-NIOH) has been working for many years towards improving the management of occupational health risks in India. ICMR-NIOH is an occupational health research institute funded by the Government of India that is responsible for helping the national policy makers to develop the most suitable and effective policies for eliminating and reducing cases of serious work-related ill health and disease. The ultimate goal of ICMR-NIOH's work is to reduce the burden of the occupational diseases that have the greatest negative impact on both public health and the productivity of the economy in India.

Location Ahmedabad, Gujarat

Areas of Research: Control and management of communicable diseases

Type of R&D performed Basic R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	155	163	156
Staff engaged in R&D	46	48	58
Total Budget of the institution (Rs. Crores)	52.69	54.68	39.91

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.17	0	0
Number of projects executed (per 100 scientific staff)	41.3	60.42	58.62
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Industry, Individuals, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	0	0
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	23.91	22.92	17.24
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	28.47	21.95	17.54
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-8.7	4.17	17.24
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0.38	1.28	1.75
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	10.87	22.92	17.24
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	2.17	35.42	1.72
Number of trainings imparted (per 100 scientific staff)	10.87	10.42	3.45
Number of skill development programmes conducted (per 100 scientific staff)	4.35	4.17	3.45
Number of permanent scientists deputed to provide training (per 100 scientific staff)	54.35	41.67	25.86
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	39.13	39.58	27.59
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	30.43	31.25	25.86
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	119.57	310.42	236.21
Percentage of publications in top 10% journals	16.67	10.53	12.5
Number of technology documents prepared in the last three years (per 100 scientific staff)	2.17	6.25	5.17
Number of national and international recognitions received by the lab (per 100 scientific staff)	2.17	4.17	3.45
Number of reports leading to designs and products (per 100 scientific staff)	2.17	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	1.5
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.19	0	0.25
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.28	0.53	0.49
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.02	0.16
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.15	0.19	0.33
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0.15

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	4.35	4.17	3.45
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	15.22	8.33	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	15.22	18.75	22.41
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	13.04	16.67	12.07
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	29.6	29.4	37.1
Percentage of organisation's budget spent on R&D and S&T	52.58	43.25	57.36
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	6.52	8.33	3.45
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	63	71	79
Percentage of women scientists and researchers to the total scientific and research staff	26	29	31
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.03	0.12	0.03
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	100	100	70
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-National Institute of Pathology

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: To conduct basic and applied research, on health problems of national importance including tumors, infectious diseases, cutaneous conditions and environmental toxicology, with goal to deliver research outputs for clinical applications; To understand the disease processes for development of new diagnostic tools, vaccines and drugs for management of diseases; Human resource development for enrichment of national pool of scientists and technologists for research in basic and applied health related subjects.

Location New Delhi

Areas of Research: Medical Research Support Organizations

Type of R&D performed Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	131	152	153
Staff engaged in R&D	70	91	89
Total Budget of the institution (Rs. Crores)	25.00	24.91	25.53

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	33.33	40.45	48.89
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	6.41	6.74	5.56
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	2.56	2.25	2.22
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0.4	0.4	0.39
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	23.08	12.36	1.11
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of trainings imparted (per 100 scientific staff)	2.56	2.25	2.22
Number of skill development programmes conducted (per 100 scientific staff)	2.56	1.12	1.11
Number of permanent scientists deputed to provide training (per 100 scientific staff)	1.28	1.12	1.11
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	2.56	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	47.44	32.58	42.22
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	43.59	46.07	52.22
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	1.28	0	1.11
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0.4	0.4	2.35
Number of IPRs granted (per Rs.10 Cr spent)	0.4	0.4	0.78
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.4	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0.4	0
Number of new services/products introduced (per Rs.10 Cr spent)	1.2	0.8	1.57
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.68	3.73	2.57
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.93	2.62	4.18
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.12	2.11	0.09
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	6.41	8.99	4.45

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	16.67	21.35	31.11
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	21.35	15.21	26.08
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	56.5	59.3	58.4
Percentage of organisation's budget spent on R&D and S&T	25.17	29.1	39.33
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	32.05	35.96	26.67
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	78.2	80.9	82.2
Percentage of women scientists and researchers to the total scientific and research staff	76.9	74.2	76.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.01	0.04	0.03
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10	11	10
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-National Institute of Research in Tribal Health

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: The ICMR-National Institute of Research in Tribal Health (NIRTH), formerly known as the Regional Medical Research Centre for Tribals (RMRCT) saw the light of the day in three rooms at the adjoining Netaji Subhash Chandra Bose Medical College, Jabalpur in 1984. The RMRCT was shifted to the main building spanning a 36 acre lush-green campus in April 2002 and re-designated to its present name (NIRTH) in 2014. ICMR-NIRTH since then has grown to accommodate established laboratories on viral diagnosis, molecular genetics, molecular parasitology, genomic epidemiology, microbiology, clinical epidemiology, and in vitro research facilities associated with a modern central animal facility.

Location Jabalpur, Madhya Pradesh

Areas of Research: Regional Medical Research Centre

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	291	304	325
Staff engaged in R&D	64	84	114
Total Budget of the institution (Rs. Crores)	31.6	34.2	28.12

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.56	0	0.88
Number of projects executed (per 100 scientific staff)	45.31	46.43	34.21
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	7.81	7.14	8.77
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	47.47	43.86	53.34
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.32	0.29	0.36
Increase in the number of staff engaged in R&D (per 100 scientific staff)	14.06	23.81	26.32
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	21.88	21.43	12.28
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	20.31	16.67	8.77
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	51.56	61.9	56.14
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	1.56	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	134.38	105.95	113.16
Percentage of publications in top 10% journals	0	5.77	3.13
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.32	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	3.9	1.49	3.7
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.43	0.38	0.58
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	2.38	1.75
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	3.13	3.57	1.75
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	10.94	13.09	20.18
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.56	1.19	0.88

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	12.5	8.33	3.51
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	15.63	9.71	12.68
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	2	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	22	27.6	35
Percentage of organisation's budget spent on R&D and S&T	5.58	11.46	3.07
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	3.13	3.57	5.26
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	73	80	86
Percentage of women scientists and researchers to the total scientific and research staff	25	26	36.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-National Institute of Traditional Medicine

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: Research: To develop evidence based, affordable Traditional Medicine solutions for most common public health concerns of national importance; Development of Human Resources: To create a cadre of integrative health care researchers and professionals; along with the programs and content for assimilation and application of validated traditional knowledge for the public; Outreach: To deliver scalable and sustainable applications of Traditional Medicine in the community through partnerships with NGO's, Government Organizations and private sector to research, promote and facilitate policy development on Tradtional Medicine.

Location Belgaum, Karnataka

Areas of Research: Mental health research and drug research (including traditional remedies)

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	57	52	47
Staff engaged in R&D	18	16	16
Total Budget of the institution (Rs. Crores)	3.73	5.97	6.2

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	11.11	12.5	12.5
Number of projects executed (per 100 scientific staff)	133.33	137.5	125
Beneficiaries of lab's programmes	Individuals, Industry	Individuals, Industry	Individuals, Industry
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	11.11	12.5	18.75
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	24.13	8.38	16.13
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	1.68	1.61
Increase in the number of staff engaged in R&D (per 100 scientific staff)	22.22	-12.5	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	88.89	56.25	75
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	44.44	25	93.75
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	5.56	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	450	443.75	368.75
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	655.56	650	431.25
Percentage of publications in top 10% journals	7.41	14.08	3.39
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	2.68	0	1.61
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	31.69	18.57	16.85
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	5.56	6.25	6.25
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	72.23	106.23	106.24

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	11.11	12.5	12.5
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	291.18	285.27	238.6
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Somewhat Agree	Somewhat Agree	Somewhat Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	31.6	30.8	34
Percentage of organisation's budget spent on R&D and S&T	8.04	9.21	7.25
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	No	Yes	No
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	No	No	No
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	50	31.25	68.75
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	No	No	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	77.8	68.8	56.3
Percentage of women scientists and researchers to the total scientific and research staff	33.3	25	18.8
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	1.07	0.83	1.12
Structured career progression plan for non-scientific staff	No	No	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	60	60	60
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-National Institute of Virology

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: Conduct studies on viral diseases affecting humans, characterize viruses; develop diagnostics; provide containment laboratory facilities & capacity building for high consequence viruses.

Location Pune, Maharashtra

Areas of Research: Control and management of communicable diseases

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	391	402	395
Staff engaged in R&D	69	60	67
Total Budget of the institution (Rs. Crores)	84.52	96.92	98.92

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	11.59	11.67	7.46
Number of projects executed (per 100 scientific staff)	46.38	43.33	44.78
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	24.64	41.67	47.76
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	31.47	33.64	161.04
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.12	0	0.1
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.35	-8.33	10.45
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	36.23	38.33	37.31
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	46.38	60	56.72
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	82.61	110	92.54
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	540.58	895	840.3
Percentage of publications in top 10% journals	8.77	7.58	11.29
Number of IPRs filed (per Rs.10 Cr spent)	0	0.21	0.51
Number of IPRs granted (per Rs.10 Cr spent)	0.59	0	0.2
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.3	0.31	0.3
Number of new services/products introduced (per Rs.10 Cr spent)	5.68	1.75	0.81
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.11	0.1	0.1
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.28	1.4	1.86
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.05	0.04	0.04
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.45	1.67	2.99
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	8.7	16.67	14.93
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	11.59	10	10.45
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	26.5	44.33	41.57
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	17.65	14.93	16.96
Percentage of organisation's budget spent on R&D and S&T	4.75	11.32	12.57
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.9	5	16.42
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	46.4	40	41.8
Percentage of women scientists and researchers to the total scientific and research staff	36.2	41.7	40.3
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.02	0.06	0.08
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	56.25	72.7	71.7
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-Rajendra Memorial Research Institute of Medical Sciences

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: The mandate of our institute is to understand more about Leishmania biology, epidemiology, diagnosis, treatment and control. It includes the study of the host and parasite interaction responsible for disease progression, cell-cell interaction and protection against disease (VL, PKDL, TB, HIV & Viral diseases) by using various tools related to immunology, molecular biology, biochemistry, pathology and epidemiology. It focuses on search of newer cost effective drugs against Kala- azar and development of national repository for sera and parasite in order to make it available to scientific community working on Leishmania. Development of rapid diagnostic kits suitable for field conditions and methods for controlling vector and disease using epidemiological tools are also included. The mandate is further extended to other tropical diseases prevalent in state of Bihar such as Tuberculosis, Malaria, Filariasis, viral diseases and diarrheal diseases in phase wise manner.

Location Patna, Bihar

Areas of Research: Capacity Building in Medical Research

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	137	123	135
Staff engaged in R&D	62	74	88
Total Budget of the institution (Rs. Crores)	24	24	24

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	30.65	27.03	12.5
Beneficiaries of lab's programmes	Government Departments	Government Departments	Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0	1.35	1.14
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0.83
Increase in the number of staff engaged in R&D (per 100 scientific staff)	27.42	16.22	15.91
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	9.68	17.57	7.95
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	50	51.35	21.59
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	75.81	51.35	27.27
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	356.45	362.16	288.64
Percentage of publications in top 10% journals	2.13	10.53	8.33
Number of IPRs filed (per Rs.10 Cr spent)	0.42	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.04	0.14
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.47	2.05	3.09
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	12.9	5.41	5.68
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.23	1.35	2.27
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	56.37	37.66	15.42
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	No opinion	No opinion	No opinion
New research fields/innovations/services introduced (upto 3)	1	1	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	45.25	60.12	65.18
Percentage of organisation's budget spent on R&D and S&T	10	9	9.5
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	17.74	9.46	6.82
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	No	No	No
Are website updates & maintenance carried out as per schedule?	No	No	No
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	59.67	39.18	34.09
Percentage of women scientists and researchers to the total scientific and research staff	29.03	18.91	20.45
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.1	0.1	0.1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	No	No	No

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-Regional Medical Research Centre

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: To support the state health system for research, diagnosis & policy making to address regional health issues both communicable & non-communicable to support in the capacity building of state health system & health personnel

Location Gorakhpur, Uttar Pradesh

Areas of Research: JE/AES, Communicable and Non-Communicable Diseases etc

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	22	34	67
Staff engaged in R&D	6	8	11
Total Budget of the institution (Rs. Crores)	1.31	2.05	14.13

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	116.67	100	90.91
Beneficiaries of lab's programmes	Government Departments	Government Departments	Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	16.67	12.5	18.18
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	76.34	243.9	141.54
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	4.88	0.71
Increase in the number of staff engaged in R&D (per 100 scientific staff)	16.67	25	27.27
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	62.5	81.82
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	12.5	18.18
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	50	50	163.64
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	50	50	163.64
Percentage of publications in top 10% journals	33	25	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	116.67	100	100
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	50	50	145.45
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	1	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	27.3	23.5	16.4
Percentage of organisation's budget spent on R&D and S&T	80	85	80
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	25	45.45
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	100	100	100
Percentage of women scientists and researchers to the total scientific and research staff	16.7	12.5	18.2
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	5	5	5
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-Regional Medical Research Centre, NE Region

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: The mandate of Regional Medical Research Centre, NE Region is to carry out biomedical research in priority areas that are fixed on the following guidelines : Diseases having priority in National health

Location	Dibrugarh, Assam
Areas of Research: Regional Medical Research Centre	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	235	304	268
Staff engaged in R&D	182	256	224
Total Budget of the institution (Rs. Crores)	19.8	23.7	22.9

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0.78	0.45
Number of projects executed (per 100 scientific staff)	23.08	18.36	22.32
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0.55	1.95	7.14
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0.42	0.87
Increase in the number of staff engaged in R&D (per 100 scientific staff)	20.88	28.91	-14.29
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	2.2	2.34	1.79
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	4.95	5.86	5.8
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	6.04	3.91	1.34
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	86.81	85.94	74.11
Percentage of publications in top 10% journals	18.18	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0.51	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	6.93	9.93	6.96
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.37	0.22	0.13
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.1	0.78	0.45
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0.55	0.78	0.45

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0.55	0.78	1.34
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	15.93	12.89	16.07
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	3.63	2.34	0.6
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	0	2	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	77.4	84.2	83.6
Percentage of organisation's budget spent on R&D and S&T	76.2	86.35	95.93
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	12.09	5.08	11.16
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	91.8	94.1	94.2
Percentage of women scientists and researchers to the total scientific and research staff	18.1	18	22.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.1	0.1	0.1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	25	25	25
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

ICMR-Vector Control Research Centre

Ministry/Department/Organisation: Indian Council of Medical Research

Mandate of the institution: To find newer methods and developing strategies of vector control for the control of vector borne diseases; to work towards a vector borne diseases free India through making strategies for prevention and control/elimination of vector borne diseases, by developing epidemiological surveillance tools for vector borne diseases and by undertaking human resource development activities to meet local/state/national/regional challenges and by taking a leadership role in technology transfer of research findings.

Location Medical Complex, Puducherry

Areas of Research: Control and management of communicable diseases

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	198	205	176
Staff engaged in R&D	39	54	56
Total Budget of the institution (Rs. Crores)	44.05	36.19	36.12

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	12.82	9.26	10.71
Number of projects executed (per 100 scientific staff)	84.62	53.7	60.71
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	10.26	12.96	16.07
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0.28
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-246.15	27.78	3.57
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	30.77	24.07	23.21
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	10.26	7.41	7.14
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	69.23	42.59	44.64
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	951.28	1011.11	866.07
Percentage of publications in top 10% journals	22.22	4.35	4
Number of IPRs filed (per Rs.10 Cr spent)	0	0.55	0.28
Number of IPRs granted (per Rs.10 Cr spent)	0.23	0	0.28
Number of IPRs licensed out (per Rs.10 Cr spent)	0.23	0.28	0.28
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.23	0.28	0.28
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.23	0.28	0.28
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.08	0.06
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.72	2.74	3.77
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	1.36	1.94	0.42
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.56	3.7	3.57
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	30.77	12.96	14.29
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	43.59	27.78	17.86
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	29.15	15.03	27.1
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	20	26	32
Percentage of organisation's budget spent on R&D and S&T	12.06	16.43	12.7
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	61.54	31.48	71.43
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	Yes
Percentage of young scientists and researchers to the total scientific and research staff	10	13	13
Percentage of women scientists and researchers to the total scientific and research staff	18	11	11
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	5	1	1
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

सत्यमेव जयते

Ministry of Electronics and Information Technology

Government of India

Centre for Development of Advanced Computing

Ministry/Department/Organisation: Ministry of Electronics and Information Technology

Mandate of the institution: C-DAC's vision is to emerge as the premier R&D institution for the design, development and deployment of world class electronic and IT solutions for economic and human advancement. C-DAC's Mission statement has evolved after deep thought and in consultation with the members of C-DAC. The Mission Statement reflects the fabric and character of C-DAC and integrates in the fulfilment of C-DAC's Vision. Expand the frontiers of Electronics and Information Technology; Evolve technology solutions - architectures, systems and standards for nationally important problems; Achieve rapid and effective spread of knowledge by overcoming language barriers through application of technologies; Share experience and know-how to help build advanced competence in the areas of Electronics and Information Technology; Bring benefits of Electronics and Information Technology to society; Utilize the Intellectual Property generated by converting it to business opportunity.

Location Pune, Maharashtra

Areas of Research: IT and Electronics

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	2693	2799	3017
Staff engaged in R&D	1788	1928	2110
Total Budget of the institution (Rs. Crores)	92	100	120

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	3.64	2.65	3.03
Number of projects executed (per 100 scientific staff)	17.51	19.61	17.77
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	12.19	7.11	10.14
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	798.59	682.8	590.67
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.98	1.8	2.67
Increase in the number of staff engaged in R&D (per 100 scientific staff)	3.64	7.26	8.63
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.11	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0.1	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0.54	0.4	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	9.79	10.32	9
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	79.53	63.49	47.35
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	8.11	3.79	3.55
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0.89	1.04	1
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	11.86	8.14	7.44
Percentage of publications in top 10% journals	2.07	4.11	2.67
Number of IPRs filed (per Rs.10 Cr spent)	1.74	1.5	2.83
Number of IPRs granted (per Rs.10 Cr spent)	2.07	1	2.17
Number of IPRs licensed out (per Rs.10 Cr spent)	0.54	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.11	0.2	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.3	0.5	0.17
Number of new services/products introduced (per Rs.10 Cr spent)	3.8	3.4	5.08
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	14.39	26.07	26.35
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	9.63	8.98	7.64
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	24.8	37.46	82.61
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.45	1.4	1.14
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0.56	0.67	0.52

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0.5	0.47	0.66
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	1.51	1.56	2.18
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	2.78	0.34	1.1
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	2	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	66.4	68.9	69.9
Percentage of organisation's budget spent on R&D and S&T	53	45	52
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	27.52	29.77	28.67
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	74.6	65.7	71.8
Percentage of women scientists and researchers to the total scientific and research staff	29.9	30.1	31
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1	1	1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	15.6	18.1	21.8
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Centre for Materials for Electronics Technology

Ministry/Department/Organisation: Ministry of Electronics and Information Technology

Mandate of the institution: THE VISION: C-MET will become a premier R&D organization known all over the world for its knowledge base, innovations and expertise in Electronic Materials. THE MISSION To develop knowledge base in electronic materials and their processing technology for Indian industries and to become a source of critical electronic materials, know-how and services for the industry and other sectors of economy. THE OBJECTIVES: (a) To establish the technology up to pilot-plant scale for a range of electronic materials and transfer the same to industry for commercialization. (b) To establish relevant advanced analytical facilities (c) To undertake applied research activities in the area of its operation

Location	Pune, Maharashtra
Areas of Research: Electronic materials; components and devices	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	118	146	155
Staff engaged in R&D	57	80	72
Total Budget of the institution (Rs. Crores)	14	24.71	33.25

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.75	3.75	13.89
Number of projects executed (per 100 scientific staff)	50.88	47.5	61.11
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	10.53	7.5	8.33
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	21.43	12.14	10.53
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.86	1.62	1.8
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-61.4	28.75	-11.11
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	84.21	60	47.22
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	54.39	68.75	65.28
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	2.78
Number of publications in quality peer reviewed journals (per 100 scientific staff)	115.79	68.75	97.22
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	19.3	6.25	9.72
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	740.35	662.5	800
Percentage of publications in top 10% journals	6.06	7.27	2.86
Number of IPRs filed (per Rs.10 Cr spent)	5.71	0.4	3.01
Number of IPRs granted (per Rs.10 Cr spent)	1.43	1.21	2.11
Number of IPRs licensed out (per Rs.10 Cr spent)	0.71	0.4	0.3
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.43	0.81	0.3
Number of new services/products introduced (per Rs.10 Cr spent)	3.57	2.83	2.71
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.36	0.42	0.06
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.06	0.1	0.12
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	4.5	5.23	7.71
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.18	0.1	0.02
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	50.88	22.5	45.83
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	14.04	8.75	13.89
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	40.87	17.19	31.25
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	48.3	54.8	46.5
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	8.77	6.25	8.33
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	71.9	82.5	81.9
Percentage of women scientists and researchers to the total scientific and research staff	5.3	3.8	4.2
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.07	0.12	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	No	No	No

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Education & Research in Computer Networking

Ministry/Department/Organisation: Ministry of Electronics and Information Technology

Mandate of the institution: ERNET India's vision is to be the number one brand in the chosen field and to be recognized as one of the most prestigious organizations offering quality service through innovation, speed, flexibility and empowered employees. The vision is the guiding principle, a dream that is realistic, credible and achievable ERNET India's mission is to benefit Education and Research institutions at large-through innovation, quality productivity, human development and growth, always striving for excellence, within the framework of policies and mandate given by Ministry of Information Technology.

Location	New Delhi
Areas of Research: IT support such as web hosting, e-mail services, video conferencing, domain registration, CUG services for academic and research institutions	
Type of R&D performed	Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	103	103	103
Staff engaged in R&D	46	46	46
Total Budget of the institution (Rs. Crores)	62.27	93.97	60

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	6.52	6.52	6.52
Number of projects executed (per 100 scientific staff)	28.26	30.43	32.61
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	4.35	6.52	2.17
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0	39130.43	39130.43
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	22.56	21.33
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.35	4.35	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of trainings imparted (per 100 scientific staff)	8358.7	15506.52	11086.96
Number of skill development programmes conducted (per 100 scientific staff)	0	0	2.17
Number of permanent scientists deputed to provide training (per 100 scientific staff)	4.35	6.52	4.35
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	8.7	6.52	4.35
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.11	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.64	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0.12
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	2.17	2.17	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	4.35	2.17	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	2.17	2.17	2.17
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	6.52	8.7	10.87
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	8.7	4.35	2.17
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	44.66	44.66	44.66
Percentage of organisation's budget spent on R&D and S&T	5	5	5
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	35	35	30
Percentage of women scientists and researchers to the total scientific and research staff	25	25	25
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	5	5	5
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	45	40	25
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Society for Applied Microwave Electronics Engineering & Research

Ministry/Department/Organisation: Ministry of Electronics and Information Technology

Mandate of the institution: To expand R&D expertise in: Medical electronics, Photonics, EMI/EMC, Radar instrumentation, High power Microwave &RF systems and Components, IT and communications, Electronics and antennas, Millimeterwave, Electronic packing design. To further engage in product development driven by technology and user requirement, create business division and to make it commercially viable in the long run, Become multi disciplinary institution and to carter to diversified applications for Rf and microwave areas, undertake training ad consultancy in areas of competence.

Location Mumbai, Maharashtra

Areas of Research: Industrial Processes R&D

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	453	448	499
Staff engaged in R&D	252	226	245
Total Budget of the institution (Rs. Crores)	42	97.29	100

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	10.71	12.39	11.43
Number of projects executed (per 100 scientific staff)	16.67	19.47	20.41
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	8.33	16.81	15.51
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	50	16.45	5
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	16.67	-11.5	7.76
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	30.56	38.05	29.39
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	22.62	24.34	11.84
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	15.48	39.38	24.9
Percentage of publications in top 10% journals	5.26	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0.2
Number of IPRs granted (per Rs.10 Cr spent)	0.24	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.24	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	1.19	0.51	0.5
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.41	0.55	0.49
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	11.3	5.41	6.82
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.97	0.44	1.22

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.78	4.42	3.67
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	19.96	18.25	8.45
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	55.6	50.4	49.1
Percentage of organisation's budget spent on R&D and S&T	40	37	40
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	No	No	No
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	44.8	57.1	62
Percentage of women scientists and researchers to the total scientific and research staff	16.3	19.9	24.1
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	5	5	5
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

**Ministry of Environment,
Forest and Climate Change
Government of India**

Botanical Survey of India

Ministry/Department/Organisation: Ministry of Environment, Forest and Climate Change

Mandate of the institution: Survey and Exploration, inventorisation and documentation of phytodiversity; publication of National, State and District Floras. Identification of Red list Species and species rich areas needing conservation; ex situ conservation of critically threatened taxa in botanical gardens; Survey and documentation of traditional knowledge (ethnobotany) associated with plants; Develop a National Database of Indian plants including herbarium and live specimens, illustrations, botanical paintings, etc. Secondary objectives; Revisionary / Monographic studies on selected plant groups; Qualitative studies of nutritive value of ethno-food plants and other economically useful plants; Capacity building in plant taxonomy through refresher courses and post M.Sc. certificate course; Environmental Impact Assessment of areas assigned to BSI for study; Develop and maintain Botanical gardens, Musea and Herbaria; Preparation of Seed, Pollen and Spore Atlas of Indian Plants. Mandate : Survey, collection, documentation (including the traditional knowledge associated with plants) and ex situ conservation of wild plant diversity.

Location Kolkata, West Bengal

Areas of Research: Plant research

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	184	186	184
Staff engaged in R&D	104	107	105
Total Budget of the institution (Rs. Crores)	10.73	19.02	22

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.96	0.93	0.95
Number of projects executed (per 100 scientific staff)	86.54	97.2	89.52
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	254.81	169.16	160
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	158.43	56.26	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	9.32	3.15	4.55
Increase in the number of staff engaged in R&D (per 100 scientific staff)	24.04	2.8	-1.9
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	4.81	5.61	8.57
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	96.15	71.03	62.86
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	155.77	75.7	93.33
Percentage of publications in top 10% journals	3	1.32	1.52
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	4.66	1.58	0.91
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.05	0.03	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.23	2.23	0.15
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	24.04	18.69	9.52
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.96	1.87	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	22.01	34.26	18.08
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	56.5	57.5	57.1
Percentage of organisation's budget spent on R&D and S&T	14.46	23.87	34.24
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0.95
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	4.8	4.7	2.9
Percentage of women scientists and researchers to the total scientific and research staff	26.9	25.2	25.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	2.4	1.42	1.25
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Centre for Environmental Management of Degraded Ecosystems

Ministry/Department/Organisation: Ministry of Environment, Forests and Climate Change

Mandate of the institution: Undertaking R&D projects; Popularizing high yielding mulberry varieties, silkworm hybrids, package of practices; Transfer of Technology & create employment opportunities

Location	New Delhi
Areas of Research: Textiles R&D	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	14	14	14
Staff engaged in R&D	14	14	14
Total Budget of the institution (Rs. Crores)	11	11	11

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	28.57	28.57	28.57
Number of projects executed (per 100 scientific staff)	21.43	21.43	21.43
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	357142.86	500000	1428571.43
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	136.36	181.82	181.82
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	4.55	2.73	3.64
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	0	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	35.71	21.43	28.57
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	7.14	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	28.57	28.57	21.43
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	7.14	14.29	14.29
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	950	328.57	242.86
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.82	1.82	1.82
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	100	100	100
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	80	80	80
Percentage of women scientists and researchers to the total scientific and research staff	10	10	10
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

G.B. Pant National Institute of Himalayan Environment

Ministry/Department/Organisation: Ministry of Environment, Forests and Climate Change

Mandate of the institution: Undertake in-depth research and development studies on environmental problems of the Indian Himalayan Region (IHR); Identify and strengthen the local knowledge of the environment and contribute towards strengthening researches of regional relevance in the scientific Institutions, Universities/NGOs and Voluntary agencies working in the Himalayan region, through interactive networking; Evolve and demonstrate suitable technological packages and delivery systems for sustainable development of the region in harmony with local perceptions.

Location Kosi-Katarmal, Almora, Uttarakhand

Areas of Research: Environment, Earth Sciences R&D

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	139	185	198
Staff engaged in R&D	100	146	158
Total Budget of the institution (Rs. Crores)	19	26.5	26

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	3	4.11	1.9
Number of projects executed (per 100 scientific staff)	32	34.25	32.91
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	17	23.29	15.82
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	107.89	89.81	168.08
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.63	2.64	3.46
Increase in the number of staff engaged in R&D (per 100 scientific staff)	22	31.51	7.59
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	9	3.42	1.9
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	13	7.53	10.13
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	42	38.36	52.53
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	258	200	324.68
Percentage of publications in top 10% journals	9.52	7.14	7.23
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	2.11	0.38	1.92
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	2.63	1.89	1.92
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.01	0.01
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	3.84	3.44	5.94
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1	2.05	0.63
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	6	9.59	21.52

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	6	4.79	5.7
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	10.24	10.61	11.01
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	71.9	78.9	79.8
Percentage of organisation's budget spent on R&D and S&T	14.6	17.3	17.5
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	15	11.64	1.27
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	84	88.4	90.5
Percentage of women scientists and researchers to the total scientific and research staff	34	37.7	45.6
Are the facilities at the lab differently-abled friendly?	No	No	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.54	0.81	0.97
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Indian Council of Forestry Research & Education

Ministry/Department/Organisation: Ministry of Environment, Forests and Climate Change

Mandate of the institution: To generate, advance and disseminate scientific knowledge and technologies for ecological security, improved productivity, livelihoods enhancement and sustainable use of forest resources

Location	Dehradun, Uttarakhand
Areas of Research: Forestry, environment and climate change; Forest research and education; Forest based technologies	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	506	486	483
Staff engaged in R&D	126	181	192
Total Budget of the institution (Rs. Crores)	195	220.99	230

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	19.05	7.73	7.81
Number of projects executed (per 100 scientific staff)	254.76	180.11	178.65
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	252.38	1291.16	4198.96
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	242	220.78	319.35
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	4.46	2.49	2.35
Increase in the number of staff engaged in R&D (per 100 scientific staff)	42.06	30.39	5.73
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	135.71	91.71	74.48
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	277.78	202.76	175.52
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	59.52	48.07	48.96
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	18.25	7.73	8.85
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	169.05	138.67	177.6
Percentage of publications in top 10% journals	4	6.9	3.19
Number of IPRs filed (per Rs.10 Cr spent)	0.26	0.05	0.13
Number of IPRs granted (per Rs.10 Cr spent)	0.82	0.09	0.09
Number of IPRs licensed out (per Rs.10 Cr spent)	0.05	0.23	0.09
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.05	0.09	0.04
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.15	0.14	0.22
Number of new services/products introduced (per Rs.10 Cr spent)	0.41	0.59	0.43
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.12	0.07	0.17
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.08	0.05	0.05
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.72	0.49	1.57
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.02	0	0.01
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.79	0.55	0.52
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	14.29	9.39	13.54
Number of national collaborative projects executed with industry (per 100 scientific staff)	0.79	1.66	0.52

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	23.02	13.81	29.17
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	8.39	3.24	8.8
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	24.9	37.2	39.8
Percentage of organisation's budget spent on R&D and S&T	3.69	3.94	3.73
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	16.67	7.73	10.42
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	11.1	7.2	5.2
Percentage of women scientists and researchers to the total scientific and research staff	12.7	8.8	8.9
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	0.09	0.16	0.21
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	32.79	22.26	19.43
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Indian Plywood Industries Research and Training Institute

Ministry/Department/Organisation: Ministry of Environment, Forests and Climate Change

Mandate of the institution: Research, Training, inspection, and Training related to forest and forest product

Location	Bengaluru, Karnataka
Areas of Research: Plywood and allied materials; Sawn timber, manufacturing plywood and other allied engineered and reconstituted wood and lignocellulosic products	
Type of R&D performed	Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	72	72	76
Staff engaged in R&D	21	24	23
Total Budget of the institution (Rs. Crores)	11	11	11

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	9.52	20.83	13.04
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	33.33	25	47.83
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	33.33	25	47.83
Number of projects executed (per 100 scientific staff)	223.81	291.67	260.87
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	33.33	29.17	30.43
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	57.14	58.33	65.22
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	157.27	153.64	223.64
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.91	1.82	2.73
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	12.5	-4.35
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	400	404.17	386.96
Number of trainings imparted (per 100 scientific staff)	23.81	20.83	17.39
Number of skill development programmes conducted (per 100 scientific staff)	4.76	0	0
Number of permanent scientists deputed to provide training (per 100 scientific staff)	4.76	4.17	4.35
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	4.76	4.17	8.7
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	128.57	120.83	95.65
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	0	29.17	56.52
Percentage of publications in top 10% journals	0	0	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	128.57	233.33	339.13
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	128.57	125	91.3
Number of IPRs filed (per Rs.10 Cr spent)	3.64	2.73	2.73
Number of IPRs granted (per Rs.10 Cr spent)	0.91	0.91	0.91
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	6.36
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	8.18	10	11.82
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.12	0.29	0.15
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.84	0.87	0.97
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.49	0.16	0.4
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.12	0.09	0.09

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	4.76	4.17	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	4.17	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	8.7
Number of national collaborative projects executed with industry (per 100 scientific staff)	95.24	100	86.96
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	9.52	12.5	60.87
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0.51
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	29.2	33.3	30.3
Percentage of organisation's budget spent on R&D and S&T	11	13	7.5
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	47.6	50	52.2
Percentage of women scientists and researchers to the total scientific and research staff	23.8	20.8	21.7
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	0.02	0.03	0.01
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10	10	10
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

सत्यमेव जयते

Ministry of Earth Sciences

Government of India

Indian Institute of Tropical Meteorology

Ministry/Department/Organisation: Ministry of Earth Sciences

Mandate of the institution: To develop outstanding research talent capable of understanding and exploring enlightened and effective Atmospheric sciences; To further the advancement of Research in Ocean-Atmosphere by undertaking relevant scientific programmes; To collaborate with other similar research institutions, in the development and application of climate study.

Location	Pune, Maharashtra
Areas of Research: Environment, Earth Sciences R&D	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	365	371	398
Staff engaged in R&D	246	245	273
Total Budget of the institution (Rs. Crores)	311.41	239.18	196.77

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.85	1.63	1.1
Number of projects executed (per 100 scientific staff)	4.47	4.08	4.4
Beneficiaries of lab's programmes	Government Departments	Industry, Government Departments	Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	3.25	3.27	4.76
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	3.02	4.1	6.2
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.19	0.38	0.36
Increase in the number of staff engaged in R&D (per 100 scientific staff)	7.32	-0.41	10.26
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	18.7	17.55	16.48
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	33.33	30.2	45.79
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.41	1.1
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	63.82	57.55	80.59
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	3.25	4.9	4.4
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	555.28	593.88	652.01
Percentage of publications in top 10% journals	7.01	4.96	9.55
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.19	0.42	0.41
Number of new services/products introduced (per Rs.10 Cr spent)	0.29	0.33	0.36
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.05	0.05	0.09
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.41	0.41	0.37
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	24.39	22.86	29.3
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	1.22	0.82	0.73
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	23.59	23.19	39.5
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	26.83	26.12	20.15
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	67.4	66	68.6
Percentage of organisation's budget spent on R&D and S&T	87.78	93.45	91.36
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	6.5	8.57	5.49
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	17.1	20	21.6
Percentage of women scientists and researchers to the total scientific and research staff	27.6	29.4	30
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1.43	0.14	1.75
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	80	80	80
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Indian National Centre for Ocean Information Services

Ministry/Department/Organisation: Ministry of Earth Sciences

Mandate of the institution: To establish, maintain and manage systems for data acquisition, analysis, interpretation and archival for Ocean Information and related services; to undertake, aid, promote, guide and coordinate research in ocean information and related services including satellite oceanography; to establish Early Warning System for Tsunami and Storm Surges; to generate and provide data along with value added data products to user communities; to cooperate and collaborate with institutions in the field of ocean remote sensing and ocean information; to organise training programmes, seminars and symposia to advance study and research related to oceanography and technology; to publish and disseminate information, results of research, data products, maps and digital information; to provide consultancy services in the fields of ocean information and advisory services; to encourage and support governmental and non-governmental agencies/organisations for furthering programmes in the generation and dissemination of ocean information; undertaking other lawful activities as may be necessary.

Location Hyderabad, Telangana

Areas of Research: Environment, Earth Sciences R&D

Type of R&D performed Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	130	159	179
Staff engaged in R&D	82	105	106
Total Budget of the institution (Rs. Crores)	81.70	96.67	87.87

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	19.67	17.11	17.11
Number of projects executed (per 100 scientific staff)	6.56	5.26	5.26
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	1.64	0	1.32
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	9.84	9.21	35.53
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	7.1	22.86	27.65
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.24	0.31	0.23
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.92	19.74	0
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of trainings imparted (per 100 scientific staff)	4.92	13.16	14.47
Number of skill development programmes conducted (per 100 scientific staff)	4.92	22.37	19.74
Number of permanent scientists deputed to provide training (per 100 scientific staff)	18.03	36.84	44.74
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	1.64	1.32	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	65.57	43.42	68.42
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	1.64	2.63	5.26
Number of technology documents prepared in the last three years (per 100 scientific staff)	1.64	3.95	9.21
Number of national and international recognitions received by the lab (per 100 scientific staff)	6.56	9.21	10.53
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0.49	0.31	0.23
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0.23
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.49	0.31	0.23
Number of new services/products introduced (per Rs.10 Cr spent)	0.73	0.62	1.25
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.07	0.04	0.05
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.01	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.64	1.32	1.32
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	26.23	9.21	22.37

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	4.92	3.95	3.95
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	43.72	35.28	47.55
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	No	No
Percentage of permanent scientists and contractual researchers	46.9	47.8	42.5
Percentage of organisation's budget spent on R&D and S&T	75	75	75
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	11.48	1.32	3.95
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	68.9	59.2	56.6
Percentage of women scientists and researchers to the total scientific and research staff	16.4	14.5	14.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.02	0.02	0.02
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

MoES - National Centre for Earth Science Studies

Ministry/Department/Organisation: Ministry of Earth Sciences

Mandate of the institution: A key mandate lies on investigations related to igneous activity, metamorphism, deep internal lithospheric processes, and development of the Western Ghats escarpment; monitoring and understanding spatio-temporal changes of shoreline along the coast, through morpho- and hydrodynamic and sedimentological studies; research to unravel nature of distribution, vulnerable areas, causative factors and to develop prediction capabilities for assisting disaster preparedness

Location	Thiruvananthapuram, Kerala
Areas of Research: Earth sciences; Geodynamics; Hydrology; Marine geoscience	
Type of R&D performed	Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	109	119	110
Staff engaged in R&D	48	46	43
Total Budget of the institution (Rs. Crores)	7.85	30.98	23.65

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	8.33	8.7	9.3
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	87.5	104.35	118.6
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	6.25	15.22	18.6
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	40.76	10.65	16.49
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	6.37	0.97	1.27
Increase in the number of staff engaged in R&D (per 100 scientific staff)	27.08	-4.35	-6.98
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	8.33	2.17	2.33
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	83.33	78.26	186.05
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	77.08	71.74	81.4
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	262.5	302.17	332.56
Percentage of publications in top 10% journals	8.11	0	8.57
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.42
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.32	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	5.17	1.11	0.43
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.71	0.19	0.19
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.86	0.59	0.66
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.08	6.52	6.98
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	18.75	10.87	23.25
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	2.17	2.33
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	47.11	40.65	42.96
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	44	38.7	39.1
Percentage of organisation's budget spent on R&D and S&T	100	61	64
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	4.17	4.35	4.65
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	33.3	34.8	37.2
Percentage of women scientists and researchers to the total scientific and research staff	12.5	13	14
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	0.45	0.01	0.01
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	20	20	20
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Centre for Polar and Ocean Research

Ministry/Department/Organisation: Ministry of Earth Sciences

Mandate of the institution: Leadership role in niche areas of scientific research in the domain of polar and ocean sciences; Lead role in the geoscientific surveys of the country's EEZ and its extended continental shelf beyond 200M, deep-sea drilling in the Arabian Sea basin through the IODP, exploration for ocean non-living resources such as the gas hydrates and multi-metal sulphides in mid-ocean ridges ;Facilitatory role in the scientific research activities being undertaken by several national institutions and organizations in Antarctica, the Arctic and in the Indian Ocean sector of the Southern Ocean; Management role in implementing all scientific and logistics activities related to the Annual Indian Expeditions to the Antarctic, Arctic and Southern Ocean; Management and upkeep of the Indian Antarctic Research Bases "Maitri" and "Bharati", and the Indian Arctic base "Himadri"; Management of the Ministry's research vessel ORV Sagar Kanya as well as the other research vessels chartered by the Ministry

Location	Vasco da Gama, Goa
Areas of Research:	Polar and ocean sciences
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	159	152	174
Staff engaged in R&D	121	113	135
Total Budget of the institution (Rs. Crores)	127	225	143

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	14.88	15.93	27.41
Beneficiaries of lab's programmes	Government Departments	Government Departments	Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	34.71	52.21	63.7
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.16	0.22	0.07
Increase in the number of staff engaged in R&D (per 100 scientific staff)	11.57	-7.08	16.3
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	3.31	2.65	2.22
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	30.58	77.88	65.19
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.88	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	53.72	57.52	17.04
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	240.5	234.51	288.15
Percentage of publications in top 10% journals	9.23	1.54	17.39
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0.07
Number of IPRs granted (per Rs.10 Cr spent)	0	0.04	0.14
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	3.31	4.42	3.7
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	16.53	22.12	8.15
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	1.65	1.77	1.48
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	No	No	No
Has the strategy worked towards solving these social or economic problems?	No	No	No
Does the strategy identify potential partnerships for impactful research?	No	No	No
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	76.1	74.3	77.6
Percentage of organisation's budget spent on R&D and S&T	5.3	10	7
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	No	No	No
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	10.74	9.73	4.44
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	81	78.8	57.8
Percentage of women scientists and researchers to the total scientific and research staff	25.6	14.2	20.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	No	No	No

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Institute of Ocean Technology

Ministry/Department/Organisation: Ministry of Earth Sciences

Mandate of the institution: To develop world class technologies and their applications for sustainable utilization of ocean resources; To provide competitive, value added technical services and solutions to organizations working in the oceans; To develop a knowledge base & institutional capabilities in India for management of ocean resources & environment.

Location	Chennai, Tamil Nadu
Areas of Research: Ocean sciences; Ocean resources and environment	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	329	345	351
Staff engaged in R&D	165	179	185
Total Budget of the institution (Rs. Crores)	151.92	245.82	177.49

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	11.52	7.26	9.19
Number of projects executed (per 100 scientific staff)	12.12	11.17	12.43
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	7.27	14.53	22.7
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.33	0.28	0.39
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-16.97	7.82	3.24
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	101.82	107.26	108.65
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	41.21	50.84	46.49
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	10.91	12.29	5.41
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	100.61	102.79	63.24
Percentage of publications in top 10% journals	2.94	0	11.63
Number of IPRs filed (per Rs.10 Cr spent)	0.59	0.16	0.17
Number of IPRs granted (per Rs.10 Cr spent)	0.13	0.04	0.28
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.2	0.08	0.11
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.13	0.12	0.34
Number of new services/products introduced (per Rs.10 Cr spent)	0.46	0.57	0.68
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.43	0.33	0.53
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	1.21	1.12	1.08
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	3.03	5.59	7.57

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.42	2.23	2.16
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	5.72	13.79	8.54
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	2.42	2.79	2.7
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	50.2	51.9	52.7
Percentage of organisation's budget spent on R&D and S&T	98	59	98
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	13.33	9.5	9.19
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	69.7	70.4	71.4
Percentage of women scientists and researchers to the total scientific and research staff	24.2	22.9	22.2
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	6	1	1
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	6	17	16
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.3)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

सत्यमेव जयते

Central Ministries/ Departments Other than Major Scientific Agencies

Department for Promotion of Industry and Internal Trade

Ministry of Agriculture

Ministry of Ayush

Ministry of Chemicals and Fertilizers

Ministry of Heavy Industries

Ministry of Housing and Urban Affairs

Ministry of Micro, Small & Medium Enterprises

Ministry of Mines

Ministry of Power

Ministry of Road Transport and Highways

Ministry of Rural Development

Ministry of Textiles

Central Manufacturing Technology Institute

Ministry/Department/Organisation: Department for Promotion of Industry and Internal Trade

Mandate of the institution: To provide 'Technology Solutions' to the manufacturing sector and assisting technological growth in the country; play a key role in applied research, design and development (RD&D), technology forecasting, assimilation and dissemination of manufacturing technology to Indian industries; to Support Industries to Achieve Excellence in Technology and Stimulate Economic Growth.

Location	Bengaluru, Karnataka
Areas of Research: Advanced Manufacturing; Nanotechnology; Precision engineering; Metrology (Micro and Nano); Additive Manufacturing; Mechatronics; Vision and Image processing; Digital Design; Product Lifecycle Management (PLM)	
Type of R&D performed	Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	234	224	301
Staff engaged in R&D	83	77	145
Total Budget of the institution (Rs. Crores)	60	60.64	60.23

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	34.94	28.57	20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	25.3	24.68	18.62
Number of projects executed (per 100 scientific staff)	56.63	67.53	21.38
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	2.41	2.6	2.76
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	14.46	24.68	14.48
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	29.33	25.07	27.23
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.5	0.33	0.5
Increase in the number of staff engaged in R&D (per 100 scientific staff)	9.64	-7.79	46.9
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	8.43	11.69	2.76
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	2.41	3.9	60.69
Number of trainings imparted (per 100 scientific staff)	50.6	54.55	32.41
Number of skill development programmes conducted (per 100 scientific staff)	13.25	19.48	8.28
Number of permanent scientists deputed to provide training (per 100 scientific staff)	2.41	15.58	12.41
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	10.84	7.79	14.48
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	10.84	37.66	6.21
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	0	0	0
Percentage of publications in top 10% journals	0	0	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	3.61	5.19	4.14
Number of national and international recognitions received by the lab (per 100 scientific staff)	1.2	1.3	0
Number of reports leading to designs and products (per 100 scientific staff)	1.2	1.3	0
Number of IPRs filed (per Rs.10 Cr spent)	1.17	0.49	0.83
Number of IPRs granted (per Rs.10 Cr spent)	0	0.99	0.5
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.17	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0.33
Number of new services/products introduced (per Rs.10 Cr spent)	7.5	4.62	5.81
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.2	0.15	0.24
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.97	1.27	1.25
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	3.43	25.18	1.49
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.14	0.09	0.02

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	1.2	1.3	1.38
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.2	1.3	4.83
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.61	1.3	2.07
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	8.43	2.6	9.66
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	35.5	34.4	48.2
Percentage of organisation's budget spent on R&D and S&T	72.36	68.26	67.93
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	1.3	0.69
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	66.3	67.5	84.1
Percentage of women scientists and researchers to the total scientific and research staff	14.5	15.6	15.2
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.44	0.23	0.45
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	2.77	1.43	7.58
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Indian Rubber Manufacturers Research Association

Ministry/Department/Organisation: Department for Promotion of Industry and Internal Trade

Mandate of the institution: To provide hand holding scientific and technological support to the Indian Rubber & Allied Industries; to create a state-of-the-art R&D Centre to support rubber industries and end users to improve the quality of rubber products. IRMRA has modern scientific and analytical facilities and has a fully equipped infrastructure for design and development, testing and certification, process optimization, technical consultancy, third party inspection, training, reverse engineering and allied aspects in quality and eco compliance for rubber and allied products.

Location	Thane, Maharashtra
Areas of Research:	Rubber Engineering; Nano and latex technologies;Tyre testing; Non tyre testing
Type of R&D performed	Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	77	79	77
Staff engaged in R&D	11	13	11
Total Budget of the institution (Rs. Crores)	17.4	18.6	18.4

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	45.45	15.38	18.18
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	181.82	100	45.45
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	181.82	100	45.45
Number of projects executed (per 100 scientific staff)	754.55	600	563.64
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	18.18	23.08	27.27
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	136.36	138.46	200
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	159.77	172.04	260.87
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.87	3.76	5.43
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	15.38	-18.18
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.57	1.61	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0.54	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	2.87	4.3	5.98
Number of consultancies undertaken for startups (per 100 scientific staff)	9.09	23.08	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	176.92	218.18
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	318.18	307.69	400
Number of trainings imparted (per 100 scientific staff)	236.36	138.46	245.45
Number of skill development programmes conducted (per 100 scientific staff)	27.27	38.46	63.64
Number of permanent scientists deputed to provide training (per 100 scientific staff)	54.55	76.92	109.09
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	27.27	0	9.09
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	36.36	30.77	9.09
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	90.91	0	9.09
Percentage of publications in top 10% journals	80	100	80
Number of technology documents prepared in the last three years (per 100 scientific staff)	36.36	61.54	81.82
Number of national and international recognitions received by the lab (per 100 scientific staff)	45.45	38.46	18.18
Number of reports leading to designs and products (per 100 scientific staff)	18.18	38.46	9.09
Number of IPRs filed (per Rs.10 Cr spent)	0.57	2.69	0.54
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	4.02	6.45	3.8
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	4.02	3.23	2.17
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.57	1.1	1.03
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.96	1.65	1.91
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	3.97	2.8	3.32
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	3.22	3.28	2.12

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	14.3	16.5	14.3
Percentage of organisation's budget spent on R&D and S&T	10	15	20
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	27.27	53.85	18.18
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	Yes
Percentage of young scientists and researchers to the total scientific and research staff	36.4	46.2	36.4
Percentage of women scientists and researchers to the total scientific and research staff	27.3	7.7	9.1
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	5	15	17
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10	30	50
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Council For Cement & Building Materials

Ministry/Department/Organisation: Department for Promotion of Industry and Internal Trade

Mandate of the institution: Preferred technology partner to cement and construction sectors in the sustainable development of a better infrastructure, housing, innovative technologies, their transfer and implementation

Location	Ahmedabad, Gujarat
Areas of Research:	Cement and Building materials; Construction; Infrastructure; Housing
Type of R&D performed	Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	259	290	235
Staff engaged in R&D	107	132	98
Total Budget of the institution (Rs. Crores)	45.92	47.49	41.43

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	4.67	3.79	7.14
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.8	0.76	4.08
Number of projects executed (per 100 scientific staff)	269.16	210.61	219.39
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	27.1	32.58	42.86
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	2.8	5.3	9.18
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	271.99	275.64	257.06
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.44	0	0.24
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.67	18.94	-34.69
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	42.99	26.52	81.63
Number of trainings imparted (per 100 scientific staff)	68.22	52.27	65.31
Number of skill development programmes conducted (per 100 scientific staff)	0	0	2.04
Number of permanent scientists deputed to provide training (per 100 scientific staff)	46.73	34.09	46.94
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	2.8	2.27	3.06
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	6.54	3.79	10.2
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	0	1.52	7.14
Percentage of publications in top 10% journals	0	0	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	6.54	9.09	21.43
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	2.8	3.03	10.2
Number of IPRs filed (per Rs.10 Cr spent)	0	0.21	0.24
Number of IPRs granted (per Rs.10 Cr spent)	0.87	0	0.24
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.22	3.79	0.72
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	2.18	2.95	1.21
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	2.79	4.02	3.12
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	4.62	5.14	5.63
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.5	2.53	1.51
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	41.3	45.5	41.7
Percentage of organisation's budget spent on R&D and S&T	90.74	69.78	76.58
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	67.3	74.2	73.5
Percentage of women scientists and researchers to the total scientific and research staff	7.5	7.6	8.2
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	0.06	0.18	0.18
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Institute of Pharmaceutical Education and Research

Ministry/Department/Organisation: Department of Pharmaceuticals

Mandate of the institution: The mandate of the Institute is to become a centre of excellence for advanced studies and research in pharmaceutical sciences and a nucleus of academia-industry interaction in pharmaceutical domain.

Location S.A.S. Nagar, Punjab

Areas of Research: Pharmaceutical sciences

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	168	164	167
Staff engaged in R&D	47	48	51
Total Budget of the institution (Rs. Crores)	197.38	180.39	152.52

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	27.66	14.58	33.33
Number of projects executed (per 100 scientific staff)	44.68	50	56.86
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	31.91	27.08	31.37
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0.41	0.44	1.38
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.15	0.44	0.2
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-4.26	2.08	5.88
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	593.62	566.67	513.73
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	21.28	27.08	31.37
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	859.57	793.75	805.88
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	1.96
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	3687.23	3185.42	2609.8
Percentage of publications in top 10% journals	12.13	13.12	11.68
Number of IPRs filed (per Rs.10 Cr spent)	0.2	0.17	0.2
Number of IPRs granted (per Rs.10 Cr spent)	0.66	1	1.18
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.06	0.05
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.08	0.07	0.04
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.19	0.17	0.24
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.01	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	1.96
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	217.04	191.69	176.49
Number of national collaborative projects executed with industry (per 100 scientific staff)	4.26	4.17	3.92

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	6.38	8.33	13.73
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	607.72	317.5	364.57
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Somewhat Agree	Somewhat Agree	Somewhat Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	28	29.3	30.5
Percentage of organisation's budget spent on R&D and S&T	71	71	71
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	No	No	No
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	2.08	1.96
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	Yes
Percentage of young scientists and researchers to the total scientific and research staff	23.4	22.9	29.4
Percentage of women scientists and researchers to the total scientific and research staff	25.5	33.3	33.3
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.01	0.01	0.01
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Soil And Land Use Survey of India

Ministry/Department/Organisation: Ministry of Agriculture

Mandate of the institution: Conduct soil survey on different scales to provide soil & land use data for developmental programmes encompassing soil & water conservation planning for watershed management, scientific land use plan

Location New Delhi

Areas of Research: Environment, Earth Sciences R&D

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	290	285	278
Staff engaged in R&D	22	20	22
Total Budget of the institution (Rs. Crores)	22.51	25.43	28.7

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	22.73	20	13.64
Number of projects executed (per 100 scientific staff)	22.73	30	18.18
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	9.09	30	22.73
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	84.85	0	2.09
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-4.55	-10	9.09
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	227.27	750	459.09
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	0	0	0
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	409.09	250	272.73
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	0	0	0
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0.35
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.35
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.33	1.18	0.7
Number of new services/products introduced (per Rs.10 Cr spent)	2.67	0.39	1.05
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.14	0.3	0.02
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	No	No	No
Does the scientific strategy include future evolution of the scientific field?	No	No	No
Does the strategy define existing problems related to social or economic situation of the nation?	No	No	No
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	7.6	7	7.9
Percentage of organisation's budget spent on R&D and S&T	15	15	15
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	4.5	5	0
Percentage of women scientists and researchers to the total scientific and research staff	0	0	4.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1	1	1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10	10	10
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Council for Research in Ayurvedic Sciences

Ministry/Department/Organisation: Ministry of Ayush

Mandate of the institution: The Central Council for Research in Ayurvedic sciences (CCRAS), an autonomous body under Ministry of AYUSH, Govt. of India is apex body in India for undertaking, coordinating, formulating, developing and promoting research on scientific lines in Ayurvedic sciences. The activities are carried out through its 30 Institutes/Centres/Units located all over India and also through collaborative studies with various Universities, Hospitals and Institutes. The research activities of the Council include Medicinal Plant Research (Medico-ethno Botanical Survey, Pharmacognosy and Tissue Culture), Drug Standardization, Pharmacological Research, Clinical Research, Literary Research & Documentation. Besides this, Council has conducting outreach activities viz. Tribal Health Care Research Programme, Ayurveda Mobile Health Care programme, Swasthya Rakshan Programme and National Programme for Prevention and control of Cancer, Diabetes, Cardiovascular Diseases and Stroke (NPCDCS).

Location New Delhi

Areas of Research: Alternative medicine research

Type of R&D performed Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	1702	1770	1812
Staff engaged in R&D	607	602	645
Total Budget of the institution (Rs. Crores)	159.26	276.4	280.68

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.15	0.83	0.93
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.98	2.66	3.57
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.98	2.49	3.57
Number of projects executed (per 100 scientific staff)	18.62	30.07	29.46
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0.82	0.83	0.78
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	1.81	9.8	6.51
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	16.01	32.34	19.6
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.63	0.33	0.64
Increase in the number of staff engaged in R&D (per 100 scientific staff)	14.66	-0.83	6.67
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0.49	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	No	No
Number of interns trained (per 100 scientific staff)	43.99	64.12	51.32
Number of trainings imparted (per 100 scientific staff)	4.94	9.14	10.85
Number of skill development programmes conducted (per 100 scientific staff)	0	0.17	0.31
Number of permanent scientists deputed to provide training (per 100 scientific staff)	3.46	5.98	7.44
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	4.28	9.97	6.98
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0.49	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	63.76	53.65	68.22
Percentage of publications in top 10% journals	0	0	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	0.49	0.5	0.47
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0.31
Number of reports leading to designs and products (per 100 scientific staff)	0.49	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0.04	0.04
Number of IPRs granted (per Rs.10 Cr spent)	0	0.04	0.04
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.06	0	0.07
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.25	0	0.04
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.47	0.34	0.19
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0.17	0.16
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	1.65	2.33	2.17
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0.49	0.33	0.31
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0.49	0.17	0.31
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	35.7	34	35.6
Percentage of organisation's budget spent on R&D and S&T	20	19	22
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.15	1.5	1.71
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	No	No	No
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	51.2	50.2	49.9
Percentage of women scientists and researchers to the total scientific and research staff	27.3	29.2	27.1
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.14	0.15	0.01
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	36	48	29
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Council for Research in Homoeopathy

Ministry/Department/Organisation: Ministry of Ayush

Mandate of the institution: Central Council for Research in Homoeopathy (CCRH), an autonomous organization under Ministry of AYUSH has a vision to promote research in Homoeopathy and generating scientific evidence in favour of homoeopathy. The more focus was on drug and disease based clinical trials, proving of new and old drugs and standardisation of the homoeopathic medicines on physicochemical and pharmacognostic parameters. Due to the upcoming new challenges the focus was shifted from specific disease base studies to public health research contributing towards improving public healthcare in the country. More stress was given on preventive trials on new epidemic diseases like dengue, chickungunya, encephalitis, influenza like illness etc. The core area of research was on providing health care facilities at primary level and reaching to the masses covering the rural population.

Location	New Delhi
Areas of Research: Alternative medicine research	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	562	877	748
Staff engaged in R&D	313	348	351
Total Budget of the institution (Rs. Crores)	112.25	109.13	128.92

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	23.64	19.25	19.94
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0.96	2.3	1.14
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.89	1.01	1.09
Increase in the number of staff engaged in R&D (per 100 scientific staff)	13.42	10.06	0.85
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	38.02	41.38	37.04
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	1.6	0.86	3.13
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0.32	0	0.28
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	3.83	6.61	4.56
Percentage of publications in top 10% journals	22.72	16.66	25
Number of IPRs filed (per Rs.10 Cr spent)	0	0.37	0.08
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.1	0.23	0.13
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.32	0.57	0.28
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0.64	0.29	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	8.31	7.47	7.41
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0.96	0.29	0.28
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	No	No	No
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	55.7	39.7	46.9
Percentage of organisation's budget spent on R&D and S&T	34.43	31.12	35.99
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0.96	0.57	3.13
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	78.9	83.9	85.2
Percentage of women scientists and researchers to the total scientific and research staff	51.4	52.6	52.4
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.01	0.01	0.01
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Council for Research in Siddha

Ministry/Department/Organisation: Ministry of Ayush

Mandate of the institution: Mandatory policies of CCRS are related to finding solutions for health based issues (Clinical research etc.) standardisation and safety efficacy of raw drugs and completed formulations used in Siddha medicine (Pre-clinical research, Pharmacopeial research), conservation and cultivation of medicinal plants (Medicinal Plants Research), conservation and digitization of existing manuscripts and books into scientific documents (Literary Research). Creation of digital assets in health contributing to the emerging artificial intelligence.

Location Chennai, Tamil Nadu

Areas of Research: Alternative medicine research

Type of R&D performed Basic R&D, Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	283	283	283
Staff engaged in R&D	86	90	91
Total Budget of the institution (Rs. Crores)	26.93	30.04	33

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.16	4.44	1.1
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.16	4.44	1.1
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.16	4.44	1.1
Number of projects executed (per 100 scientific staff)	39.53	38.89	57.14
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	26.74	2.22	2.2
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	37.21	84.44	89.01
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	30.08	80.23	11.52
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	2.6	5.33	2.73
Increase in the number of staff engaged in R&D (per 100 scientific staff)	24.42	4.44	1.1
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	52.33	56.67	71.43
Number of trainings imparted (per 100 scientific staff)	0	3.33	2.2
Number of skill development programmes conducted (per 100 scientific staff)	2.33	4.44	1.1
Number of permanent scientists deputed to provide training (per 100 scientific staff)	3.49	27.78	13.19
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	13.95	12.22	17.58
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	3.49	1.11	3.3
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	31.4	36.67	64.84
Percentage of publications in top 10% journals	8	0	6
Number of technology documents prepared in the last three years (per 100 scientific staff)	3.49	5.56	10.99
Number of national and international recognitions received by the lab (per 100 scientific staff)	2.33	3.33	2.2
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	4.99	0.3
Number of IPRs granted (per Rs.10 Cr spent)	0	3	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.37	0.33	0.3
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	3.34	7.32	6.06
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.05	0.03	0.06
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	2.33	2.22	3.3
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.33	2.22	4.4
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	11.63	7.78	12.09
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	30.4	31.8	32.2
Percentage of organisation's budget spent on R&D and S&T	41.88	29.2	72.58
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	63.95	53.33	118.68
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	72.1	75.6	76.9
Percentage of women scientists and researchers to the total scientific and research staff	52.3	53.3	50.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.11	0.63	0.82
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	60	80	85
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Council for Research in Unani Medicine

Ministry/Department/Organisation: Ministry of Ayush

Mandate of the institution: To undertake research or any other programmes in Unani Medicine, Prosecution of and assistance in research and propagation of knowledge and experimental measures generally in connection with the causation, mode of spread and prevention of diseases; To initiate, aid, develop and coordinate scientific research on different aspects, fundamental and applied, of Unani Medicine, and to promote and assist institutions of research for the study of diseases, their prevention, causation and remedy; To finance enquiries and researches for the furtherance of the objectives of the Council; To exchange information with other institutions, associations and societies interested in the objectives similar to those of the Council, especially in the observation and study of diseases in the East in general, and in India in particular; To prepare, print, publish and exhibit any papers, posters, pamphlets, periodicals and books for furtherance of the objectives of the Council and to contribute to such literature.

Location New Delhi

Areas of Research: Alternative medicine research

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	917	897	878
Staff engaged in R&D	259	264	281
Total Budget of the institution (Rs. Crores)	133.93	147	159.54

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	21.24	23.48	23.13
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	61.39	72.73	42.7
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	18.67	18.37	13.79
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.3	0.48	0.31
Increase in the number of staff engaged in R&D (per 100 scientific staff)	15.06	1.89	6.05
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	6.06	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	1.54	3.03	3.2
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	18.53	21.21	21
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0.15	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0.37	0.27	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.09	0.12	0.11
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0.09
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	1.54	0.76	2.14
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	28.2	29.4	32
Percentage of organisation's budget spent on R&D and S&T	9	10	10
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	1.16	1.52	6.41
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	8.5	8.3	7.8
Percentage of women scientists and researchers to the total scientific and research staff	13.1	13.3	12.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.5	0.5	0.5
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Institute of Ayurveda

Ministry/Department/Organisation: Ministry of Ayush

Mandate of the institution: To promote the Growth and Development of Ayurveda

Location	Jaipur, Rajasthan
Areas of Research: Alternative medicine research	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	539	532	522
Staff engaged in R&D	129	124	115
Total Budget of the institution (Rs. Crores)	71.81	91	121.98

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	114.73	143.55	145.22
Number of projects executed (per 100 scientific staff)	3.1	8.06	7.83
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	89.15	68.55	58.26
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	151.79	108.57	61.98
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.81	1.43	1.07
Increase in the number of staff engaged in R&D (per 100 scientific staff)	16.28	-4.03	-7.83
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	131.01	116.13	128.7
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	70.54	66.13	43.48
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	4.65	1.61	10.43
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	0.78	3.23	0.87
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0.56	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0.22	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.09	0.04
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.1	0.15
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.02	0.01	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	2.42	2.61

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	3.1	5.65	5.22
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	23.9	23.3	22
Percentage of organisation's budget spent on R&D and S&T	1.67	1.87	0.43
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	No	No	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	62.8	65.3	60
Percentage of women scientists and researchers to the total scientific and research staff	38.8	40.3	42.6
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1.71	2.47	1.36
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	100	100	100
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Pharmacopoeia Commission for Indian Medicine and Homoeopathy

Ministry/Department/Organisation: Ministry of Ayush

Mandate of the institution: To develop Pharmacopoeias for drugs/formulations of 'Indian Medicine' and 'Homoeopathy'; to develop Formularies of 'Indian Medicine'; to revise/update/amend the published Pharmacopoeias and Formularies as may be deemed necessary; to publish compendia supplementary to Pharmacopoeias/Formularies of 'Indian Medicine' and 'Homoeopathy' and other related scientific/regulatory information; to act as Central Drug Testing cum Appellate Laboratory for 'Indian Medicine' and 'Homoeopathy'; to impart Capacity Building Training to Drug Regulatory Authorities and personnel engaged in Quality Control; to nurture and promote awareness on Quality assurance of drugs/formulations of 'Indian Medicine' and 'Homoeopathy' and drug research; Repositories of authentic reference materials; to exercise any activity so as to propagate/promote/improvise implementation/ enforcement of provisions of Drugs and Cosmetics Act, 1940 and Rules thereunder as well as other laws/schemes/programmes of 'Government', relevant to functional area of PCIM&H

Location Ghaziabad, Uttar Pradesh

Areas of Research: Alternative medicine research

Type of R&D performed Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	56	51	55
Staff engaged in R&D	12	14	23
Total Budget of the institution (Rs. Crores)	10.84	13.71	12.89

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	25	7.14	0
Number of projects executed (per 100 scientific staff)	100	92.86	78.26
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	0	0
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	425	335.71	221.74
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	45.2	8.02	17.84
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	4.61	1.46	1.55
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	14.29	39.13
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of trainings imparted (per 100 scientific staff)	33.33	21.43	17.39
Number of skill development programmes conducted (per 100 scientific staff)	33.33	21.43	17.39
Number of permanent scientists deputed to provide training (per 100 scientific staff)	91.67	114.29	60.87
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	0	0	0
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	25	7.14	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	25	7.14	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	133.76	36.47	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.01	0.01
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.02	0.01
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	8.33	7.14	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	1	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	No	No	No
Does the strategy identify potential partnerships for impactful research?	No	No	No
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	21.4	27.5	41.8
Percentage of organisation's budget spent on R&D and S&T	47.51	40.48	46.55
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	No	No	No
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	No	Yes	Yes
Are website updates & maintenance carried out as per schedule?	No	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	41.7	57.1	65.2
Percentage of women scientists and researchers to the total scientific and research staff	25	35.7	39.1
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0	0	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Institute of Petrochemicals Engineering & Technology
Laboratory for Advanced Research in Petrochemicals Materials

Ministry/Department/Organisation: Ministry of Chemicals and Fertilizers

Mandate of the institution: To conduct Research & Developmental activities in niche areas of Polymer Science & Technology which includes Structural Composites & Nanocomposites, Biodegradable Polymers, Polymer Coatings, Foams, E-Waste Recycling as well as Technology Transfer; To undertake consultancy to the Research Institutions Industries etc.

Location	Bhubaneswar, Orissa
Areas of Research: Chemicals and Feritilizers R&D	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	61	78	91
Staff engaged in R&D	44	54	60
Total Budget of the institution (Rs. Crores)	6	7	8

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.27	1.85	3.33
Number of projects executed (per 100 scientific staff)	11.36	22.22	20
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	13.64	11.11	13.33
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	33.33	31.43	22.5
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	3.33	2.86	2.5
Increase in the number of staff engaged in R&D (per 100 scientific staff)	27.27	18.52	10
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	359.09	351.85	230
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	140.91	137.04	70
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	79.55	66.67	51.67
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	2.27	1.85	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	77.27	296.3	653.33
Percentage of publications in top 10% journals	6	8	10
Number of IPRs filed (per Rs.10 Cr spent)	1.67	2.86	2.5
Number of IPRs granted (per Rs.10 Cr spent)	1.67	2.86	2.5
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	1.67	1.43	1.25
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.9	7.72	3.02
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	6.39	1.82	5.8
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	1.85	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	2.27	1.85	1.67
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	5.56	5
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	4.55	0	1.67
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	72.1	69.2	65.9
Percentage of organisation's budget spent on R&D and S&T	79.56	75.25	87.17
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	97.7	98.1	98.3
Percentage of women scientists and researchers to the total scientific and research staff	40.9	40.7	43.3
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	3.33	3.54	1.6
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	25	27	22
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Institute of Food Technology Entrepreneurship and Management

Ministry/Department/Organisation: Ministry of Food Processing Industries

Mandate of the institution: International Center of Excellence that integrates all facets of food technology, entrepreneurship and management and be recognized as the focal point for the growth of the food processing Industries

Location Sonipat, Haryana

Areas of Research: Earth Sciences

Type of R&D performed Basic R&D, Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	94	88	95
Staff engaged in R&D	35	34	40
Total Budget of the institution (Rs. Crores)	49.74	87.53	46.75

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	20	14.71	32.5
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	11.43	0	0
Number of projects executed (per 100 scientific staff)	22.86	47.06	52.5
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	31.43	132.35	97.5
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	4.02	5.03	47.06
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.2	0.23	1.28
Increase in the number of staff engaged in R&D (per 100 scientific staff)	2.86	-2.94	15
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0.11	14.97
Number of consultancies undertaken for startups (per 100 scientific staff)	8.57	11.76	10
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	665.71	708.82	702.5
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	122.86	100	125
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	342.86	382.35	450
Percentage of publications in top 10% journals	14	35	28
Number of IPRs filed (per Rs.10 Cr spent)	0.2	0.57	0.86
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0.43
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0.21
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0.21
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0.21
Number of new services/products introduced (per Rs.10 Cr spent)	0.6	0.11	0.21
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.01	0.03
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.42	0.32	0.56
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.01	0.01	0.01
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	2.86	5.88	5
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	34.29	26.47	12.5
Number of national collaborative projects executed with industry (per 100 scientific staff)	8.57	14.71	15

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	40	35.29	55
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	37.2	38.6	42.1
Percentage of organisation's budget spent on R&D and S&T	0.1	10	11
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	5.71	5.88	7.5
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	85.7	79.4	80
Percentage of women scientists and researchers to the total scientific and research staff	37.1	44.1	47.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.2	0.5	0.8
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	21.43	7.69	23.08
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

The Automotive Research Association of India

Ministry/Department/Organisation: Ministry of Heavy Industries

Mandate of the institution: To Create and Facilitate safe, sustainable and SMART Mobility Solutions, to offer services like Testing & Validation, Certification & Homologation, Design & Development, Research & Development, Projects & Consulting, Standardisation & Harmonisation, Inspection and Audit, Equipment Calibration, Testing Solutions, Education & Training, and Knowledge Dissemination; to develop indigenous automotive technologies, India specific databases, software tools and testing facilities; to enhance in-house competence; create India specific data bases/ study reports; and develop indigenous cost effective technologies/ solutions in various automotive domains addressing present and future mobility needs.

Location	Pune, Maharashtra
Areas of Research:	Industrial Processes R&D
Type of R&D performed	Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	688	748	773
Staff engaged in R&D	238	268	271
Total Budget of the institution (Rs. Crores)	233.65	264.09	304.98

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	11.76	10.45	8.49
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5.46	8.96	8.12
Number of projects executed (per 100 scientific staff)	5.88	7.09	4.06
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	6.3	5.6	5.54
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	2.94	3.36	5.9
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	100.11	77.55	89.45
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.09	0.11	0.03
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-8.82	11.19	1.11
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	78.15	66.04	78.23
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	Yes	Yes
Number of interns trained (per 100 scientific staff)	69.33	79.85	97.05
Number of trainings imparted (per 100 scientific staff)	137.82	118.28	121.77
Number of skill development programmes conducted (per 100 scientific staff)	73.95	57.84	34.32
Number of permanent scientists deputed to provide training (per 100 scientific staff)	2.94	2.24	2.21
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	11.76	3.36	16.61
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0.42	1.87	3.69
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	15.13	17.91	12.55
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	1.49	4.43
Number of national and international recognitions received by the lab (per 100 scientific staff)	1.26	2.24	1.48
Number of reports leading to designs and products (per 100 scientific staff)	0	1.49	2.95
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0.13	0.04	0.13
Number of IPRs granted (per Rs.10 Cr spent)	0	0.08	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.64	0.42	0.89
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	1.16	1.48	1.18
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.28	0.16	0.09
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	11.89	11.9	11.83
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.22	0.14	0.08
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.26	3.73	1.85
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.42	1.12	1.85
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	2	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	34.6	35.8	35.1
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	92.9	89.2	93
Percentage of women scientists and researchers to the total scientific and research staff	11.3	10.8	11.1
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.12	0.11	0.11
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Institute of Urban Affairs

Ministry/Department/Organisation: Ministry of Housing and Urban Affairs

Mandate of the institution: Established in 1976 it is an autonomous body under the Ministry of Housing and Urban Affairs, Government of India. The Institute was set up to bridge the gap between research and practice, and to provide critical and objective analyses of trends and prospects for urban development. NIUA has provided support to the Ministry of Housing and Urban Affairs, state governments, and cities in policy formulation and programme appraisal and monitoring.

Location	New Delhi
Areas of Research: Economics and Development Sector R&D	
Type of R&D performed	Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	110	139	129
Staff engaged in R&D	97	117	114
Total Budget of the institution (Rs. Crores)	21.95	22.74	26.63

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	3.09	4.27	5.26
Number of projects executed (per 100 scientific staff)	20.62	19.66	24.56
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	11.34	7.69	7.89
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0	0	0
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	0	0	0
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	20.62	17.09	-2.63
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of trainings imparted (per 100 scientific staff)	32.99	46.15	69.3
Number of skill development programmes conducted (per 100 scientific staff)	0	0	0
Number of permanent scientists deputed to provide training (per 100 scientific staff)	0	0	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	61.86	64.1	65.79
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	1.03	0.85	0.88
Number of technology documents prepared in the last three years (per 100 scientific staff)	1.03	0.85	0.88
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	1.03	0.85	0.88
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0.46	0.44	0.38
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.35	3.5	2.14
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	2.58	2.86	2.75
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	2.28	2.2	1.93
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	7.82	7.76	8.28
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	3.09	4.27	5.26
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	5.15	5.98	7.02
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	88.2	89.3	88.4
Percentage of organisation's budget spent on R&D and S&T	0	0	0
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	89.7	72.6	75.4
Percentage of women scientists and researchers to the total scientific and research staff	61.9	53	53.5
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	20	20	20
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	No	No	No
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Coir Research Institute, Coir Board

Ministry/Department/Organisation: Ministry of Micro, Small & Medium Enterprises

Mandate of the institution: Established in 1976 it is an autonomous body under the Ministry of Housing and Urban Affairs, Government of India. The Institute was set up to bridge the gap between research and practice, and to provide critical and objective analyses of trends and prospects for urban development. NIUA has provided support to the Ministry of Housing and Urban Affairs, state governments, and cities in policy formulation and programme appraisal and monitoring.

Location Alappuzha, Kerala

Areas of Research: Materials R&D

Type of R&D performed Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	83	101	71
Staff engaged in R&D	17	17	10
Total Budget of the institution (Rs. Crores)	1.89	5	4.20

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	15.79	10.53	18.18
Number of projects executed (per 100 scientific staff)	105.26	73.68	118.18
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	21.05	21.05	36.36
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	373.68	326.32	400
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	835.98	200	450
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	4.76
Increase in the number of staff engaged in R&D (per 100 scientific staff)	10.53	0	-72.73
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	5.29	8	9.52
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	15.87	62	38.1
Number of trainings imparted (per 100 scientific staff)	0	0	0
Number of skill development programmes conducted (per 100 scientific staff)	63.16	52.63	181.82
Number of permanent scientists deputed to provide training (per 100 scientific staff)	5.26	5.26	0
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	0	0	0
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	21.05	21.05	72.73
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	5.26	63.64
Number of national and international recognitions received by the lab (per 100 scientific staff)	36.84	0	0
Number of reports leading to designs and products (per 100 scientific staff)	21.05	21.05	72.73
Number of IPRs filed (per Rs.10 Cr spent)	15.87	4	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	2.38
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	19.05
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	21.16	8	9.52
Number of new services/products introduced (per Rs.10 Cr spent)	26.46	2	14.29
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.99	0.24	0.41
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	10	10	10.05
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	5.26	9.09
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	10.53	5.26	9.09
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	31.58	31.58	54.55
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	22.89	18.81	15.49
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	15.79	15.79	27.27
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	82.61	86.36	85.71
Percentage of women scientists and researchers to the total scientific and research staff	52.2	45.5	50
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1	1	1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	No	No	No
Percentage of scientists who have undergone a career development programme on an annual basis	8.7	9.1	14.28
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Jawaharlal Nehru Aluminium Research Development And Design Centre

Ministry/Department/Organisation: Ministry of Mines

Mandate of the institution: JNARDDC Nagpur is a Centre of Excellence set up in 1989 as a joint venture of Ministry of Mines and UNDP for providing major R&D support system for the emerging modern aluminium industry in India.

Location	Nagpur, Maharashtra
Areas of Research: Materials R&D	
Type of R&D performed	Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	47	60	58
Staff engaged in R&D	20	30	28
Total Budget of the institution (Rs. Crores)	15.13	24.63	17.9

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	10	3.23	10.71
Number of projects executed (per 100 scientific staff)	100	74.19	60.71
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	15	12.9	14.29
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	100	67.74	75
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	20.49	28.42	16.76
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	4.63	2.03	2.79
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-15	35.48	-10.71
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of trainings imparted (per 100 scientific staff)	15	9.68	3.57
Number of skill development programmes conducted (per 100 scientific staff)	0	3.23	3.57
Number of permanent scientists deputed to provide training (per 100 scientific staff)	60	38.71	64.29
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	55	25.81	42.86
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	25	19.35	28.57
Number of technology documents prepared in the last three years (per 100 scientific staff)	70	80.65	125
Number of national and international recognitions received by the lab (per 100 scientific staff)	5	25.81	7.14
Number of reports leading to designs and products (per 100 scientific staff)	25	6.45	10.71
Number of IPRs filed (per Rs.10 Cr spent)	5.95	1.22	0.56
Number of IPRs granted (per Rs.10 Cr spent)	1.98	0.41	0.56
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0.41	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	1.32	2.03	4.47
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.32	0.41	1.68
Number of new services/products introduced (per Rs.10 Cr spent)	1.32	0.81	0.56
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.94	0.52	0.66
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	2.74	1.86	2.41
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0.2	0.11
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.81	0.78	1.21
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	5	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	30	32.26	14.29
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	35	32.26	25
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	5	3.23	10.71
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	42.6	50.8	48.3
Percentage of organisation's budget spent on R&D and S&T	100	100	100
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	25	48	54
Percentage of women scientists and researchers to the total scientific and research staff	20	25.8	28.6
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.5	0.5	0.5
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	7	40	32
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Institute of Rock Mechanics

Ministry/Department/Organisation: Ministry of Mines

Mandate of the institution: To develop innovative methods of mining under adverse geomining conditions for unlocking precious mineral wealth in synergy with the national mineral policy; to develop accredited testing and calibration facilities of international standards for various laboratory as well as in-situ tests, contribute for standards in testing and investigation; to get empanelled with various statutory bodies in India, and establish linkages with international organizations through collaborative projects in relevant fields; to identify and develop areas of specialization based on national and global needs, establish Centers of Competency in core areas; to conduct short-term and long-term training courses on modern investigation techniques for executives from the industry

Location	Bengaluru, Karnataka
Areas of Research: Rock Mechanics; Rock Engineering	
Type of R&D performed	Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	53	54	57
Staff engaged in R&D	43	40	42
Total Budget of the institution (Rs. Crores)	11.1	12.37	12.88

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.33	2.5	2.38
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	2.33	2.5	2.38
Number of projects executed (per 100 scientific staff)	318.6	307.5	238.1
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	0	0
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	6.98	7.5	7.14
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	74.77	34.76	3.88
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	-7.5	4.76
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	41.86	50	33.33
Number of trainings imparted (per 100 scientific staff)	4.65	5	2.38
Number of skill development programmes conducted (per 100 scientific staff)	0	0	0
Number of permanent scientists deputed to provide training (per 100 scientific staff)	27.91	25	4.76
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	6.98	10	16.67
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	48.84	75	69.05
Percentage of publications in top 10% journals	0	0	15
Number of technology documents prepared in the last three years (per 100 scientific staff)	118.6	320	426.19
Number of national and international recognitions received by the lab (per 100 scientific staff)	2.33	7.5	9.52
Number of reports leading to designs and products (per 100 scientific staff)	0	2.5	2.38
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	1.8	1.62	1.55
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.9	0.81	0.78
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	4.78	6.22	3.39
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	2.09	3.35	4.74
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	1.8	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	2.33	2.5	2.38
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.33	2.5	2.38
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	2.33	2.5	14.29
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	0	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	No	No	No
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	80	74	73.7
Percentage of organisation's budget spent on R&D and S&T	40	40	40
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	No	No	No
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	47	50	54.8
Percentage of women scientists and researchers to the total scientific and research staff	4.7	5	4.8
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	1	1	1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Power Research Institute

Ministry/Department/Organisation: Ministry of Power

Mandate of the institution: Central Power Research Institute (CPRI) which is an autonomous society under the Ministry of Power, functions as a national power research organization for undertaking and sponsoring R&D projects in the fields of generation, transmission, distribution and operation of electricity supply systems. CPRI provides necessary centralized research and testing facilities for evaluation of electrical materials and performance of power equipment, apart front serving as a national testing and certification authority for the purpose of certification of rating and performance to ensure availability of quality equipment for use under conditions prevalent in Indian power systems.

Location Bengaluru, Karnataka

Areas of Research: Infrasturcture and Power R&D

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	515	523	489
Staff engaged in R&D	197	175	164
Total Budget of the institution (Rs. Crores)	200.64	205.19	306.58

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	1.52	3.43	8.54
Number of projects executed (per 100 scientific staff)	35.03	45.14	34.15
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0.51	0.57	0.61
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	27.16	32.75	81.48
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.1	1.61	1.99
Increase in the number of staff engaged in R&D (per 100 scientific staff)	1.02	-12.57	-6.71
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	1.52	7.43	0.61
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	47.21	17.14	10.98
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	12.69	21.14	23.17
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	93.91	105.71	107.93
Percentage of publications in top 10% journals	36	56.76	47.37
Number of IPRs filed (per Rs.10 Cr spent)	0.4	0.15	0.07
Number of IPRs granted (per Rs.10 Cr spent)	0.05	0	0.16
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.9	0.58	0.33
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	2.09	2.22	1.06
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	6.29	6.47	3.79
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.06	0.01	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0.08	0.04
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	1.71	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	4.06	5.14	4.88
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.03	3.43	3.05
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	7.61	15.43	19.51
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	38.3	33.5	33.5
Percentage of organisation's budget spent on R&D and S&T	11.84	9.15	3.83
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	36.6	48	52.4
Percentage of women scientists and researchers to the total scientific and research staff	14.2	15.4	16.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.12	0.11	0.05
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Institute of Road Transport

Ministry/Department/Organisation: Ministry of Road Transport and Highways

Mandate of the institution: CIRT is an authorized test agency , recognized by MoRTH under Rule 126 & 124 of CMVR for testing and certification of Vehicles and Auto Components. CIRT undertakes Consultancy Projects and Training.

Location	Pune, Maharashtra
Areas of Research: Infrasturcture and Power R&D	
Type of R&D performed	Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	70	67	70
Staff engaged in R&D	18	15	18
Total Budget of the institution (Rs. Crores)	16.99	19.38	24.18

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	5.56	6.67	0
Number of projects executed (per 100 scientific staff)	77.78	93.33	72.22
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	105.56	126.67	105.56
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	5.56	26.67	11.11
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	625.07	277.61	694.38
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.18	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	0	-20	16.67
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of trainings imparted (per 100 scientific staff)	144.44	373.33	161.11
Number of skill development programmes conducted (per 100 scientific staff)	0	0	0
Number of permanent scientists deputed to provide training (per 100 scientific staff)	50	40	33.33
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	0	0	0
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	16.67	6.67	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0.52	0
Number of IPRs granted (per Rs.10 Cr spent)	0.59	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	1.18	2.58	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.59	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	3.91	4.27	4.33
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	4.48	4.12	4.15
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	5.56	6.67	11.11
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	0	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	25.7	22.4	25.7
Percentage of organisation's budget spent on R&D and S&T	0	0	0
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	33.3	40	50
Percentage of women scientists and researchers to the total scientific and research staff	11.1	13.3	16.7
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.46	0.38	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	100	100	100
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

National Institute of Rural Development & Panchayati Raj

Ministry/Department/Organisation: Ministry of Rural Development

Mandate of the institution: The NIRD&PR is mandated to: - Organise training programmes conferences, seminars and workshops for senior level development managers, elected representatives, bankers, NGOs and other stakeholders; - Undertake, aid, promote and coordinate research on its own and / or collaborate with State, national and international development agencies; - Analyse and offer solutions to problems encountered in planning and implementation of the programmes for rural development, decentralised governance, panchayati raj and related programmes; - Study the functioning of the Panchayati Raj Institutions (PRIs) and rural development programmes across the States; - Analyse and propose solutions to problems in planning and implementation of the programmes for rural development; and - Develop content and disseminate information and transfer technology through periodicals, reports, e-modules and other publications.

Location Hyderabad, Telangana

Areas of Research: Economics and Development Sector R&D

Type of R&D performed Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	531	644	625
Staff engaged in R&D	64	72	64
Total Budget of the institution (Rs. Crores)	50	72.17	80.42

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	25	27.78	31.25
Number of projects executed (per 100 scientific staff)	210.94	76.39	84.38
Beneficiaries of lab's programmes	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments	Individuals, NGOs, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	0	0
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	1671.88	125	245.31
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	2389	1978.8	2539.79
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	300	220.87	198.46
Increase in the number of staff engaged in R&D (per 100 scientific staff)	23.44	11.11	-12.5
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	2.8	0.42	0.37
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0.12
Number of new hires by the current incubatees (per Rs.10 Cr spent)	152	154.63	121.86
Number of trainings imparted (per 100 scientific staff)	2575	2347.22	2676.56
Number of skill development programmes conducted (per 100 scientific staff)	623.44	706.94	1006.25
Number of permanent scientists deputed to provide training (per 100 scientific staff)	93.75	90.28	109.38
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	4.69	5.56	7.81
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	132.81	75	51.56
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	1.39	1.56
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	1.39	1.56
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	2.36	1.3	0.3
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.73	1.55	1.52
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	4.6	25.43	0.74
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	1.35	0.62	0.97
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	6.25	0	1.56
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	1.56	1.39	1.56

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.56	11.11	14.06
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	17.19	13.89	3.13
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	1.56	4.17	6.25
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	3	3
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	12.1	11.2	10.2
Percentage of organisation's budget spent on R&D and S&T	0	0	0
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	17.2	9.7	9.4
Percentage of women scientists and researchers to the total scientific and research staff	28.1	22.2	21.9
Are the facilities at the lab differently-abled friendly?	No	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.28	0.13	0.15
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	10	15	18
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Muga Eri Research and Training Institute

Ministry/Department/Organisation: Ministry of Textiles

Mandate of the institution: To act as an apex Research Institute for providing research and developmental support for Muga and Eri sericulture; To conduct basic, strategic and applied research to increase production and productivity of silkworms and their host plants; Improvement of food plants as well as silkworm eco-races and hybrids; To conduct socio-economic research for assessing sustainability of newly developed technologies; To percolate the research findings to the end users through extension and training mechanism.

Location	Jorhat, Assam
Areas of Research: Textiles R&D	
Type of R&D performed	Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	153	152	152
Staff engaged in R&D	48	48	44
Total Budget of the institution (Rs. Crores)	21.57	24.69	24.69

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	27.08	27.08	29.55
Number of projects executed (per 100 scientific staff)	62.5	33.33	81.82
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	18.75	18.75	0
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	1038.9	793.83	765.88
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	1.39	0.81	0.41
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.17	0	-9.09
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	2.27
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	20.83	20.83	147.73
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	41.67	27.08	22.73
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	104.17	104.17	113.64
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0.46	0.81	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	7.88	6.89	7.29
Number of new services/products introduced (per Rs.10 Cr spent)	1.85	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.07	0.06	0.11
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.38	0.13	0.23
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	2.08	0	0
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	35.42	10.42	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	2	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	31.4	31.6	28.9
Percentage of organisation's budget spent on R&D and S&T	27.43	20.5	15.67
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	2.08	0	4.55
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	10.4	20.8	20.5
Percentage of women scientists and researchers to the total scientific and research staff	18.8	18.8	27.3
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	1	1	1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	20	20	15
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Sericultural Germplasm Resources Centre

Ministry/Department/Organisation: Ministry of Textiles

Mandate of the institution: Collection, conservation, documentation, evaluation, utilization of and research on sericultural germplasm resources

Location	Hosur, Tamil Nadu
Areas of Research: Textiles R&D	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	29	31	31
Staff engaged in R&D	10	10	11
Total Budget of the institution (Rs. Crores)	5.57	7.06	7.59

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	100	120	127.27
Beneficiaries of lab's programmes	Individuals, Government Departments	Individuals, Government Departments	Individuals, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	230	100	118.18
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	301.62	4674.22	1409.75
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-20	0	9.09
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	50	0	45.45
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	0	0	0
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	100	30	27.27
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.01	0.01
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0	0.01
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	70	90	81.82
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	0
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	0	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	No	No	No
Has the strategy worked towards solving these social or economic problems?	No	No	No
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	34.5	32.3	35.5
Percentage of organisation's budget spent on R&D and S&T	15.41	10.89	9.1
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	10	30	36.4
Percentage of women scientists and researchers to the total scientific and research staff	70	50	54.5
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.06	0.06	0
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	100	70	36.36
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Sericultural Research & Training Institute

Ministry/Department/Organisation: Ministry of Textiles

Mandate of the institution: Undertaking R&D projects; Popularizing high yielding mulberry varieties, silkworm hybrids, package of practices; Transfer of Technology & create employment opportunities

Location	Berhampore, West Bengal
Areas of Research: Textiles R&D	
Type of R&D performed	Applied R&D, Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	208	195	172
Staff engaged in R&D	49	49	42
Total Budget of the institution (Rs. Crores)	37.41	46.95	43.82

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	18.37	12.24	19.05
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	18.37	12.24	19.05
Number of projects executed (per 100 scientific staff)	75.51	59.18	61.9
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	2.04	2.04	2.38
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	26.53	34.69	26.19
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	984.23	659.42	697.4
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-10.2	0	-16.67
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	40.82	75.51	95.24
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	40.82	79.59	97.62
Number of trainings imparted (per 100 scientific staff)	300	265.31	302.38
Number of skill development programmes conducted (per 100 scientific staff)	79.59	44.9	128.57
Number of permanent scientists deputed to provide training (per 100 scientific staff)	10.2	16.33	30.95
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	6.12	10.2	9.52
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	57.14	22.45	28.57
Percentage of publications in top 10% journals	0	0	0
Number of technology documents prepared in the last three years (per 100 scientific staff)	0	0	0
Number of national and international recognitions received by the lab (per 100 scientific staff)	0	0	0
Number of reports leading to designs and products (per 100 scientific staff)	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0.68
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	1.87	0.43	0.91
Number of new services/products introduced (per Rs.10 Cr spent)	2.41	1.28	1.83
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.02	0.01	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.01	0.01	0.01
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	4.08	2.04	2.38
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	12.24	8.16	16.67
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	4.08	6.12	9.52
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	4.08	2.04	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	2	2	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	24	25	24
Percentage of organisation's budget spent on R&D and S&T	81	73	72
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	4.08	2.38
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	18	45	50
Percentage of women scientists and researchers to the total scientific and research staff	20	27	21
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.02	0.02	0.5
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	27
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Silk Technological Research Institute

Ministry/Department/Organisation: Ministry of Textiles

Mandate of the institution: To improve the quality of silk products viz. raw silk, spun silk and silk fabrics; To develop and introduce process and quality control measures in the production units.; To improve productivity through process and machinery standardization. ;To upgrade the machinery used in reeling, spinning, weaving and wet processing; To enhance the utilization of bi-products for better returns; To provide training, encompassing skill, technology and management.;To provide technical and consultancy services to the industry; To provide services for testing of cocoons, fibre, yarn, fabric, dyes, chemicals and water as per national and international standards; To plant the technology through various schemes; To disseminate research findings through various field interaction programmes; To adopt production units for transfer of technology; To provide technical guidance/assistance for setting up new enterprise; To provide on-line information regarding products, processes, technology, machinery, domestic and export markets.

Location Bengaluru, Karnataka

Areas of Research: Textiles R&D

Type of R&D performed Applied R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	61	60	54
Staff engaged in R&D	269	251	239
Total Budget of the institution (Rs. Crores)	30.5	36.1	39.5

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 5 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	14.75	25	18.52
Number of projects executed (per 100 scientific staff)	29.51	31.67	31.48
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	21.31	26.67	38.89
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	438.46	267.77	409.25
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	33.73	14.68	25.06
Increase in the number of staff engaged in R&D (per 100 scientific staff)	8.2	-1.67	-11.11
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	1.85
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	14.75	28.33	133.33
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	1.64	5	1.85
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	6.56	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	1.64	6.67	5.56
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0.98	0	0.51
Number of IPRs granted (per Rs.10 Cr spent)	0.33	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0.25
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	2.62	3.88	2.28
Number of new services/products introduced (per Rs.10 Cr spent)	3.27	2.22	1.77
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.09	0.11	0.01
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.48	0.36	0.34
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0	0	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.03	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	4.92	5	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	1.64	0	1.85
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	4.92	5	7.41
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	1.64	5	1.85
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	23	24	23
Percentage of organisation's budget spent on R&D and S&T	76	69	74
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	1.67	1.85
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	10	10	11
Percentage of women scientists and researchers to the total scientific and research staff	11.5	10	13
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.1	0.1	0.1
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Central Tasar Research & Training Institute

Ministry/Department/Organisation: Ministry of Textiles

Mandate of the institution: To serve as the National Institute to organize and promote Tasar silk industry through basic & applied research, extension & technology transfer and generation of trained human resource in tasar industry; to conduct basic and applied research on tasar host plants and silkworms for improvement and optimization of output, and on postcocoon aspects for increasing the rate of production and refinement in the process for quality yarn and fabrics; to develop innovations for improved silkworm rearing, cocoon preservation and seed production; to develop technologies for control of pests and diseases of host plants and silkworm; to extend consultancy services to different agencies and organizations

Location	Ranchi, Jharkhand
Areas of Research: Textiles R&D	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	124	107	86
Staff engaged in R&D	25	22	25
Total Budget of the institution (Rs. Crores)	36.74	41.87	33.3

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	24	27.27	24
Number of projects executed (per 100 scientific staff)	92	100	60
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	72	118.18	104
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	312.19	321.47	346.85
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.82	0.48	0.3
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-20	-13.64	12
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	0
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	128	95.45	88
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	0	18.18	12
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	13.64	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	4	45.45	0
Percentage of publications in top 10% journals	0	40	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0.72	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0.48	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0.27	0.24	0.3
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0.54	0.48	0.6
Number of new services/products introduced (per Rs.10 Cr spent)	2.18	2.39	2.7
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.01	0.01	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0.01	0
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.26	0	0.09
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	4.55	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	8	9.09	8
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	8
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	0	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	2	2
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	20.2	20.6	29.1
Percentage of organisation's budget spent on R&D and S&T	67.2	65.84	64.35
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	20	22.7	24
Percentage of women scientists and researchers to the total scientific and research staff	20	13.6	20
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	2.82	1.84	0.39
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	78	29	21
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Seribiotech Research Laboratory

Ministry/Department/Organisation: Ministry of Textiles

Mandate of the institution: To conduct research in frontier areas of modern biology and to seek its potential applications to improve Silk productivity & quality; To interact with other institutions doing basic or applied research in areas related to sericulture and allied areas including biomaterial research; To disseminate the technology developed to the target groups through other R & D constituents of CSB

Location Bengaluru, Karnataka

Areas of Research: Textiles R&D

Type of R&D performed Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	22	25	22
Staff engaged in R&D	13	14	13
Total Budget of the institution (Rs. Crores)	2.35	2.4	2.88

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	53.85	50	53.85
Number of projects executed (per 100 scientific staff)	61.54	57.14	76.92
Beneficiaries of lab's programmes	Industry, Government Departments	Industry, Government Departments	Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	23.08	28.57	23.08
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	76.6	87.5	59.03
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	-69.23	7.14	-7.69
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0	0	0
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0	0
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	0	0	30.77
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	No	No	No
Number of interns trained (per 100 scientific staff)	138.46	150	130.77
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	46.15	50	61.54
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	107.69	35.71	61.54
Percentage of publications in top 10% journals	0	0	0
Number of IPRs filed (per Rs.10 Cr spent)	0	0	0
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	4.26	8.33	0
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0	0	0
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.06	0.08	0.04
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.69	1.09	0.62
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0.29	0.24
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	7.14	7.69
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	7.69	0	0
Number of national collaborative projects executed with industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	53.85	42.86	61.54
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	15.38	14.29	46.15
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	7.69	0	0
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	3	0	0
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	59.1	56	59.1
Percentage of organisation's budget spent on R&D and S&T	37.46	26.27	31.44
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	69.2	71.4	69.2
Percentage of women scientists and researchers to the total scientific and research staff	53.8	50	46.2
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.75	0.41	0.17
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	50	85	50
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Wool Research Association

Ministry/Department/Organisation: Ministry of Textiles

Mandate of the institution: The Council of the Association shall consist of the President, Two Vice-Presidents and 12 Members. The number of Members may be increased or decreased by resolution passed at a meeting of the General Body. Subject to provision contained herein all members of the Council shall be ordinary members and / or nominated members, elected by the Association provided that always three members shall be representatives of the Ministry of Textiles. The Director of Research will be an ex-officio Member of the Council.

Location Thane, Maharashtra

Areas of Research: Textiles R&D

Type of R&D performed Services R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	37	38	33
Staff engaged in R&D	17	17	15
Total Budget of the institution (Rs. Crores)	3.50	4.00	3.80

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 6 and higher) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0	0	0
Number of projects executed (per 100 scientific staff)	100	76.47	53.33
Beneficiaries of lab's programmes	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments	Individuals, NGOs, Industry, Government Departments
Number of scientific staff appointed to government or national committees for policy improvement (per 100 scientific staff)	0	0	40
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0	0	0
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	85.71	160	168.42
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	8.57	0	0
Increase in the number of staff engaged in R&D (per 100 scientific staff)	11.76	0	-13.33
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	28.57	20	5.26
Number of incubated startups successfully exited (per Rs.10 Cr spent)	28.57	20	5.26
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0	0	0
Number of trainings imparted (per 100 scientific staff)	23.53	82.35	26.67
Number of skill development programmes conducted (per 100 scientific staff)	5.88	11.76	13.33
Number of permanent scientists deputed to provide training (per 100 scientific staff)	5.88	11.76	13.33
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0	0
Number of publications in quality peer reviewed journals (per 100 scientific staff)	0	0	26.67
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	35.29	29.41	20
Number of technology documents prepared in the last three years (per 100 scientific staff)	35.29	64.71	93.33
Number of national and international recognitions received by the lab (per 100 scientific staff)	11.76	0	0
Number of reports leading to designs and products (per 100 scientific staff)	35.29	29.41	20
Number of IPRs filed (per Rs.10 Cr spent)	0	25	13.16
Number of IPRs granted (per Rs.10 Cr spent)	0	0	0
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	25	5.26
Number of new services/products introduced (per Rs.10 Cr spent)	17.14	12.5	10.53
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.18	0	0.73
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	3.27	3.27	5.07
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	1.85	0.39	0
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0	0	0
Number of international collaborative projects executed with industry (per 100 scientific staff)	0	0	0
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0	0	0
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	0	0	0

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with industry (per 100 scientific staff)	100	70.59	46.67
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0	0	6.67
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	0	0	26.67
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Somewhat Agree	Somewhat Agree	Somewhat Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	45.9	44.7	45.5
Percentage of organisation's budget spent on R&D and S&T	80	80	80
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	No	No	No
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	No	No	No
Does the lab have a public grievance redressal cell?	No	No	No
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0	0	0
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	No	No	No
Percentage of young scientists and researchers to the total scientific and research staff	52.9	47.1	26.7
Percentage of women scientists and researchers to the total scientific and research staff	23.5	23.5	20
Are the facilities at the lab differently-abled friendly?	No	No	No
Percentage of budget spent on training & skill up-gradation of staff	5	10	8
Structured career progression plan for non-scientific staff	No	No	No
Structured career progression plan for scientific staff	No	No	No
Percentage of scientists who have undergone a career development programme on an annual basis	0	0	0
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

Indian Institute of Technology Roorkee

Ministry/Department/Organisation:

Mandate of the institution: To attain global level of excellence in education and to create a sustainable and equitable society through innovative research in science and technology; to create an environment that shall foster the growth of intellectually capable, innovative and entrepreneurial professionals, who shall contribute to the growth of Science and Technology in partnership with industry and develop and harness it for the welfare of the nation and mankind.

Location	Roorkee, Uttarakhand
Areas of Research:	
Type of R&D performed	Basic R&D

	2017-18	2018-19	2019-20
Total staff at the Lab	3094	3432	4067
Staff engaged in R&D	2376	2746	3387
Total Budget of the institution (Rs. Crores)	651.56	802.37	809.37

Indicator	2017-18	2018-19	2019-20
Number of Technologies (TRL 0-4) targeted towards achieving SDGs and National Programs (per 100 scientific staff)	0.93	1.17	0.86
Number of projects executed (per 100 scientific staff)	10.44	14.31	15.47
Beneficiaries of lab's programmes	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments	Individuals, Industry, Government Departments
Number of outreach activities conducted for schools and colleges for the promotion of S&T (per 100 scientific staff)	0.13	1.02	0.68
Number of persons who attended skill development, entrepreneurship and innovation trainings organised by the lab (per Rs.10 Cr spent)	6.11	7.5	6.83
Number of national and international programs - S&T symposia, conferences, etc. organised by the lab (per Rs.10 Cr spent)	0.45	0.42	0.21
Increase in the number of staff engaged in R&D (per 100 scientific staff)	4.12	13.47	18.93
Number of start-ups incubated in the premises of the lab having access to all incubation facilities of the lab (per Rs.10 Cr spent)	0.11	0.1	0.2
Number of incubated startups successfully exited (per Rs.10 Cr spent)	0	0.12	0.07
Number of new hires by the current incubatees (per Rs.10 Cr spent)	0.58	1.05	2.21
Number of consultancies undertaken for startups (per 100 scientific staff)	0	0	0.06
Number of PhDs, Masters and Graduate degrees awarded by the lab or awarded through collaboration with a University (per 100 scientific staff)	85.27	73.89	57.07
Whether the PhDs have been examined by one or more foreign assessors as an organisation policy	Yes	Yes	Yes
Number of interns trained (per 100 scientific staff)	2.99	3.5	1.89
Number of national awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.11	0
Number of international awards and recognitions and fellowships received by members of the lab (per 100 scientific staff)	0	0.04	0.03
Number of publications in quality peer reviewed journals (per 100 scientific staff)	68.18	61.54	49.87
Number of commissioned technology development/ design/project reports prepared (per 100 scientific staff)	0	0	0
Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff)	455.56	453.1	418.33
Percentage of publications in top 10% journals	10.12	10.36	8.76
Number of IPRs filed (per Rs.10 Cr spent)	0.46	0.47	0.52
Number of IPRs granted (per Rs.10 Cr spent)	0.05	0.06	0.02
Number of IPRs licensed out (per Rs.10 Cr spent)	0	0	0
Number of national and international policies, regulations and standards lab has made a contribution to (per Rs.10 Cr spent)	0	0	0
Different number of technologies transferred domestically and internationally (per Rs.10 Cr spent)	0	0	0
Number of new services/products introduced (per Rs.10 Cr spent)	0.18	0.14	0.17
Earnings (in Rs. Crores) from government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	1.38	0.93	1.34
Earnings (in Rs. Crores) from non-government sources -Training, Consultancy, Tech Transfer fees (per Rs.10 Cr spent)	0.43	0.53	0.43
Total external research and development funding amount received (in Rs. Crores) from government sources (per Rs.10 Cr spent)	0.89	0.55	0.83
Total external research and development funding amount received (in Rs. Crores) from non-government sources (per Rs.10 Cr spent)	0.09	0.15	0.12
Number of international collaborative projects executed with industry (per 100 scientific staff)	0.04	0.04	0.03
Number of international collaborative projects with academic/research organisation (per 100 scientific staff)	0.88	1.24	1.54
Number of international collaborations measured by publications with academic organisation/industry (per 100 scientific staff)	12.88	12.12	10.69
Number of national collaborative projects executed with industry (per 100 scientific staff)	0.21	0.4	0.32

Indicator	2017-18	2018-19	2019-20
Number of national collaborative projects executed with academic/research organisation (per 100 scientific staff)	0.13	0.22	0.15
Number of national collaborations measured by publications with academic institutions/industry (per 100 scientific staff)	37.32	35.81	26.18
Number of scientists attached to industry/academic organisation under an exchange program (per 100 scientific staff)	4.42	3.35	6.26
Extent to which R&D is being carried out in line with lab's vision, mission and objectives	Strongly Agree	Strongly Agree	Strongly Agree
New research fields/innovations/services introduced (upto 3)	1	1	1
Is there a scientific strategy defined to work towards the mandate?	Yes	Yes	Yes
Does the scientific strategy include future evolution of the scientific field?	Yes	Yes	Yes
Does the strategy define existing problems related to social or economic situation of the nation?	Yes	Yes	Yes
Has the strategy worked towards solving these social or economic problems?	Yes	Yes	Yes
Does the strategy identify potential partnerships for impactful research?	Yes	Yes	Yes
Has the lab's mission/vision evolved in last 5 years?	Yes	Yes	Yes
Percentage of permanent scientists and contractual researchers	76.7	80	83.28
Percentage of organisation's budget spent on R&D and S&T	26.1	34.86	33.9
Does the lab effectively communicate its objective and strategy to its staff?	Yes	Yes	Yes
Does the lab have all requisite SOP/guidelines for its processes?	Yes	Yes	Yes
Are there initiatives in place to promote intra-organisational collaborations?	Yes	Yes	Yes
Has the lab deployed any software system to track and manage research projects through its lifecycle?	Yes	Yes	Yes
Does the lab have necessary ethics guidelines and policies in place?	Yes	Yes	Yes
Does the lab have a sexual harassment mitigation cell with requisite policies and procedures?	Yes	Yes	Yes
Does the lab have a public grievance redressal cell?	Yes	Yes	Yes
Does the lab have national/international accreditation/certification for its lab procedure?	Yes	Yes	Yes
Does the lab have transparent recruitment guidelines and processes in place?	Yes	Yes	Yes
Number of outside researchers who undertook research at the lab (per 100 scientific staff)	0.59	0.73	0.53
Does the website capture details of the R&D facility, research manpower and mandatory disclosures?	Yes	Yes	Yes
Are website updates & maintenance carried out as per schedule?	Yes	Yes	Yes
Does the lab have an EDI (Equity, Diversity & Inclusion) cell?	Yes	Yes	Yes
Percentage of young scientists and researchers to the total scientific and research staff	87.7	89.2	90.6
Percentage of women scientists and researchers to the total scientific and research staff	30.2	34.2	33
Are the facilities at the lab differently-abled friendly?	Yes	Yes	Yes
Percentage of budget spent on training & skill up-gradation of staff	0.43	0.4	0.38
Structured career progression plan for non-scientific staff	Yes	Yes	Yes
Structured career progression plan for scientific staff	Yes	Yes	Yes
Percentage of scientists who have undergone a career development programme on an annual basis	0	13.7	10.9
Does the lab have incentives in place to promote talent?	Yes	Yes	Yes

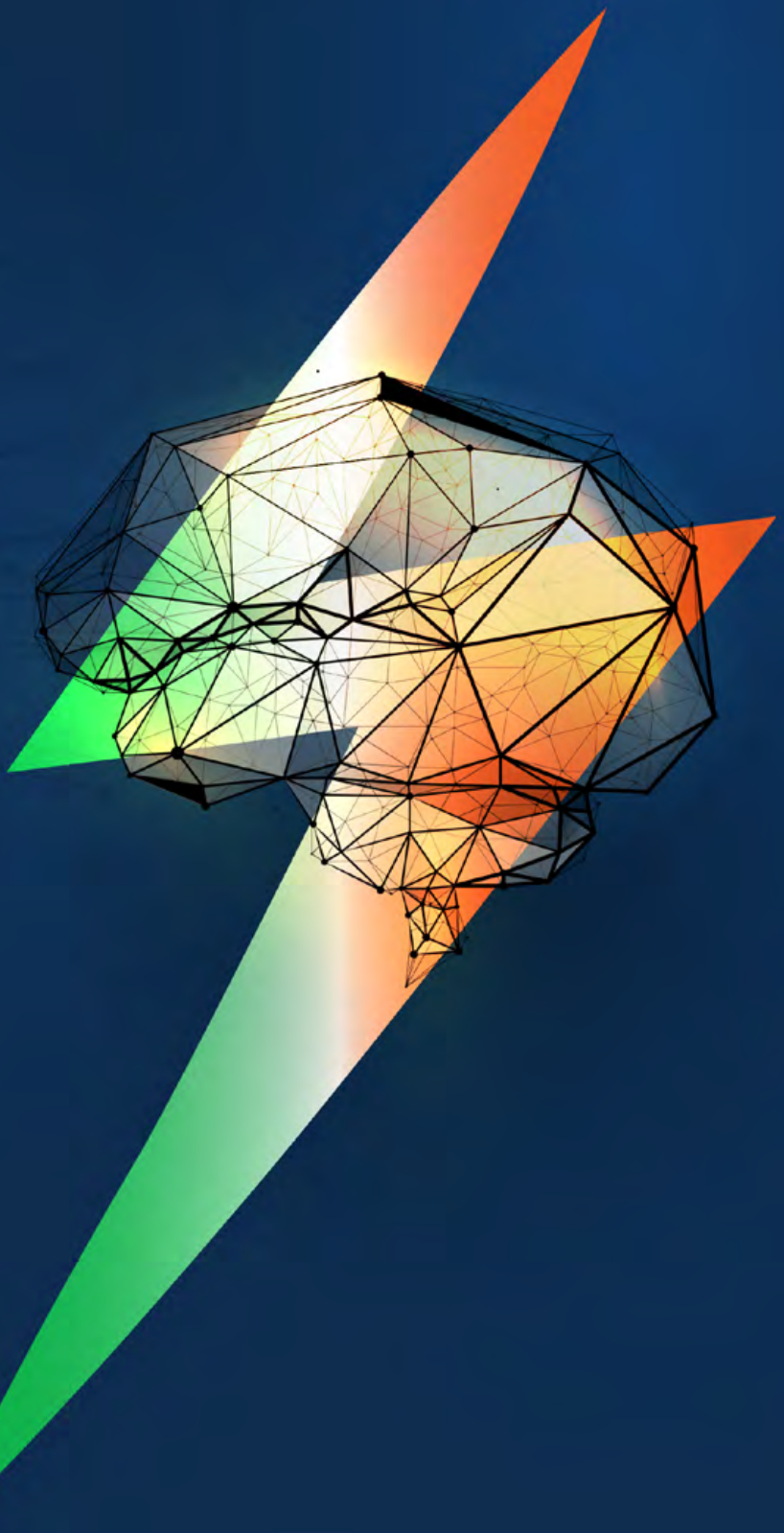
Qualitative questions have not been included here and can be found in the questionnaire (A.1)

1st Quartile | 2nd Quartile | 3rd Quartile | 4th Quartile

Data submitted by the lab could not be validated

SECTION 5

APPENDICES



Appendix A.1
COMPOSITION OF THE TASK FORCE

1.	**Prof. Goverdhan Mehta, Chairman, National Accreditation Board of Education and Training, Quality Council of India**	**Chairman**
2.	Director, National Institute of Science, Technology and Development studies (NISTIS)	Member
3.	Director, National Institute of Science Communication and Information Resources (NISCAIR)	Member
4.	Representative from D/o Science & Technology	Member
5.	Representative from D/o Biotechnology	Member
6.	Representative of CSIR	Member
7.	Representative of M/o of Earth Sciences	Member
8.	Representative of D/o Space	Member
9.	Representative of D/o Atomic Energy	Member
10.	Representative of M/o Electronics & IT	Member
11.	Representative of D/o Telecom	Member
12.	Representative of ICAR	Member
13.	Representative of ICMR	Member
14.	Dr Amit Kapoor, Institute for Competitiveness, India	Member
15.	ED, TIFAC	Member
16.	Adviser, S&T, NITI Aayog	Member
17.	Head, Technology, CII	Member Convener

Appendix A.2

MEMBERS OF THE WORKING GROUP

1.	**Dr. Arabinda Mitra, Scientific Secretary, Office of PSA**	**Chairman**
2.	Representative, D/o Science & Technology	Member
3.	Representative, D/o Biotechnology	Member
4.	Representative, CSIR	Member
5.	Representative, M/o of Earth Sciences	Member
6.	Representative, D/o Space	Member
7.	Representative, Atomic Energy	Member
8.	Representative, M/o Electronics & IT	Member
9.	Representative of ICAR	Member
10.	Representative of ICMR	Member
11.	Representative, DRDO	Member
12.	Representative, NITI Aayog	Member
13.	Representative, Indian Statistical Institute	Member
14.	Representative, CII	Knowledge Partner

Appendix A.3
QUESTIONNAIRES

A.3.1 Basic R&D Labs Questionnaire

Q1: *What are the number of Technologies (TRL 0-4) targeted towards achieving Sustainable Development Goals and National Programs?

NUMBER

Please indicate the relevant SDGs from the list provided below

- [ ] Goal 1: No poverty
- [ ] Goal 2: Zero hunger
- [ ] Goal 3: Good health and well-being
- [ ] Goal 4: Quality education
- [ ] Goal 5: Gender equality
- [ ] Goal 6: Clean water and sanitation
- [ ] Goal 7: Affordable and clean energy
- [ ] Goal 8: Decent work and economic growth
- [ ] Goal 9: Industry, innovation and infrastructure
- [ ] Goal 10: Reduced inequalities
- [ ] Goal 11: Sustainable cities and communities
- [ ] Goal 12: Responsible consumption and production
- [ ] Goal 13: Climate action
- [ ] Goal 14: Life Below Water
- [ ] Goal 15: Life on land
- [ ] Goal 16: Peace, justice and strong institutions
- [ ] Goal 17: Partnerships for the goals

Please indicate the relevant National Programs from the list provided below

- [ ] National Health Protection Scheme
- [ ] Mid-day Meal Program
- [ ] Swachh Bharat Mission
- [ ] 'Housing for All by 2022' Mission
- [ ] National Rural Drinking Water Program
- [ ] Jan Dhan Yojna
- [ ] Skill India Mission
- [ ] Make In India
- [ ] Shramew Jayate Yojna
- [ ] National Ayush Mission (NAM)
- [ ] Hriday Scheme
- [ ] Ujala Yojna
- [ ] Atal Pension Yojna

- [ ] Pradhan Mantri Swasthya Suraksha Yojana (PMSSY)
- [ ] Smart Cities Mission
- [ ] AMRUT
- [ ] UDAY
- [ ] Start Up India
- [ ] Gramoday se Bharat Uday
- [ ] Pradhan Mantri Ujjwala Yojana (PMUY)
- [ ] Namami Gange
- [ ] National Super Computing Mission
- [ ] National Inter Disciplinary Cyber Physical Systems
- [ ] Other

Q2: *What were the total number of projects executed?

Projects executed in a particular year would include projects started in the relevant year or completed in the relevant year. They would also include multi-year projects that may have started in a previous financial year and are on-going in the relevant year.

Please include all projects that have been undertaken either as a standalone project or those falling under particular themes or programmes.

NUMBER

Q3a: Who were the main beneficiaries of your organisation's programmes?

Select all that apply

- [ ] Individuals
- [ ] NGOs
- [ ] Industry
- [ ] Government Departments

Q3b: Describe how the beneficiaries were impacted by the organisation's programmes.

DETAILS

Q4: What was the total number of outreach activities conducted for schools and colleges for the promotion of S&T?

Examples of outreach activities include open house exhibitions, lecture demonstrations, student delegation by schools and colleges, Science Day activities, INSPIRE camps, etc.

NUMBER

Q5: What was the number of persons who attended skill development, entrepreneurship and innovation trainings organised by your organisation?

Examples of skill development, entrepreneurship and innovation trainings include teacher training, IT skilling, technical training that may culminate in variety of entrepreneurial activities etc.

NUMBER

Q6b: What was the total number of international programs - S&T symposia, conferences etc. organised by your organisation?

International programs should have a minimum attendance of 100 and at least 5 foreign speakers.

NUMBER

Q7: How did your organisation contribute to increase in existing employee base/new job creation through IP or technologies transferred?

DETAILS

Q8a: What was the increase in the number of permanent scientists (Scientist B/Level 10 or equivalent and above)?

The increase should be calculated as the difference in staff between the reporting year and the previous year.

NUMBER

Q8b: What was the increase in the number of contractual researchers for projects?

The increase should be calculated as the difference in staff between the reporting year and the previous year.

NUMBER

Q9: *What was the total number of start-ups incubated in the premises of your organisation having access to all incubation facilities of your organisation?

An incubated startup will have access to all incubator facilities like land, equipment, research support, mentoring, auxiliary/technical support such as marketing, accounting, legal help etc.

NUMBER

Q10: *What was the total number of incubated startups successfully exited by your organisation?

Successful exits are those who have graduated from the incubation program of the organisation under organisation's Policy except those who are compulsorily retired/ removed/ terminated under the organisation's Policy.

NUMBER

Q11: *What was the total number of new hires by the current incubatees at your organisation?

NUMBER

Q12: *What was the total number of consultancies undertaken for startups by your organisation?

NUMBER

Q13a: *What was the total number of PhDs awarded by your organisation or awarded through collaboration with a University?

NUMBER

Q13b: *What was the total number of Masters degrees awarded by your organisation or awarded through collaboration with a University?

NUMBER

Q13c: *What was the total number of graduate degrees awarded by your organisation or awarded through collaboration with a University?

NUMBER

Q14: Whether the PhDs have been examined by one or more foreign assessors as an Institute policy?

☐ Yes ☐ No

Q15: What were the total number of interns trained at your organisation?

The term "interns" is used broadly here to include apprentices, summer interns, dissertation students, engineering trainees, etc.

NUMBER

Q16a: *What was the total number of national awards and recognitions received by members of your organisation?

Only include Shanti Swarup Bhatnagar awardees, Padma awardees, Infosys Prize awardees.

NUMBER

Q16b: *What was the total number of national fellowships awarded to members of your organisation?

Only include Indian National Science Academy, Indian National Academy of Engineering, National Academy of Sciences, India, Indian Academy of Sciences fellowships.

NUMBER

Q17a: *What was the total number of international awards and recognitions received by the members of your organisation?

Only include awards by EMBO, US Presidential Young Investigator Award.

NUMBER

Q17b: *What was the total number of international fellowships awarded to members of your organisation?

Only include Fellowship of Royal Society, US National Academy of Sciences, The World Academy of Sciences.

NUMBER

Q18a: *What was the number of publications in quality peer reviewed journals?

Please use Web of Science or Scopus database to report this number.

NUMBER

Q18b: *What were the number of commissioned technology development/design/ project reports prepared by your organisation?

Reports include detailed process technology report, process design report, process equipment design & development, toxicological studies, detailed process control & instrumentation scheme for a technology, design of an automated production etc. commissioned by the Government of India, State Governments, Public Sector Undertakings and private sector firms.

NUMBER

Q19: *What was the number of citations received by papers published in the preceding three calendar years?

Please use Web of Science or Scopus database to report this number.

NUMBER

Q20: *What was the percentage of publications in top 10% of journals as per Impact Factor by subject category?

Please use InCites or Scimago database to report this number.

NUMBER

Q21a: *What were the total number of patents filed?

Please include domestic and international filings.

NUMBER

Q21b: *What were the total number of trademarks filed?

Please include domestic and international filings.

NUMBER

Q21c: *What were the total number of designs filed?

Please include domestic and international filings.

NUMBER

Q21d: *What were the total number of copyrights filed?

Please include domestic and international filings.

NUMBER

Q21e: *What were the total number of GI of goods filed?

Please include domestic and international filings.

NUMBER

Q21f: *What were the total number of plant varieties filed?

Please include domestic and international filings.

NUMBER

Q21g: *What were the total number of semiconductor Integrated Circuit layout applications filed?

Please include domestic and international filings.

NUMBER

Q22a: *What were the total number of patents granted?

Please include domestic and international filings.

NUMBER

Q22b: *What were the total number of trademarks granted?

Please include domestic and international filings.

NUMBER

Q22c: *What were the total number of designs granted?

Please include domestic and international filings.

NUMBER

Q22d: *What were the total number of copyrights granted?

Please include domestic and international filings.

NUMBER

Q22e: *What were the total number of GI of goods granted?

Please include domestic and international filings.

NUMBER

Q22f: *What were the total number of plant varieties granted?

Please include domestic and international filings.

NUMBER

Q22g: *What were the total number of semiconductor Integrated Circuit layout applications granted?

Please include domestic and international filings.

NUMBER

Q23a: *What were the different number of patents licensed out?

NUMBER

Q23b: *What were the different number of trademarks licensed out?

NUMBER

Q23c: *What were the different number of designs licensed out?

NUMBER

Q23d: *What were the different number of copyrights licensed out?

NUMBER

Q23e: *What were the different number of GI of goods licensed out?

NUMBER

Q23f: *What were the different number of plant varieties licensed out?

NUMBER

Q23g: *What were the different number of semiconductor Integrated Circuit layout applications licensed out?

NUMBER

Q24a: * What was the number of national policies, regulations and standards finalised during the year in respect of which your organisation had made a contribution so acknowledged in the approved documents?

NUMBER

Q24b: * What was the number of international policies, regulations and standards finalised during the year in respect of which your organisation had made a contribution so acknowledged in the approved documents?

NUMBER

Q25a: *What were the different number of technologies transferred domestically by your organisation?

Technologies may be transferred through direct sale, license, spinoffs or transfer for use at cost or free of cost.

NUMBER

Q25b: *What were the different number of technologies transferred internationally by your organisation?

Technologies may be transferred through direct sale, license, spinoffs or transfer for use at cost or free of cost.

NUMBER

Q26a: *What was the number of new services introduced in the market or being used by industry or other research organisations including yours?

NUMBER

Q26b: *What was the number of new products introduced in the market or being used by industry or other research organisations including yours?

New products would include for example novel drugs or major instrumentation.

NUMBER

Q27: What were the total annual earnings from government sources in the following areas?

Please report all amounts in Rs. crores.

a) Consultancy fees, including earnings from contract research, testing and analysis.

NUMBER

b) Training fees, including earnings from courses and workshops.

NUMBER

c) Technology transfer, including earnings from product commercialisation, sale of books/publications, and licensing of patents, trademarks, etc?

NUMBER

Q28: What were the total annual earnings from non- government sources in the following areas?

Please report all amounts in Rs. crores.

a) Consultancy fees, including earnings from contract research, testing and analysis

NUMBER

b) Training fees, including earnings from courses and workshops

NUMBER

c) Technology transfer, including earnings from product commercialisation, sale of books/publications, and licensing of patents, trademarks, etc.

NUMBER

Q29: What was the total external research and development funding amount received from government sources?

Government sources include Government of India, State governments and CPSE / State PSE. External research and development funding does not include core support/ assistance from Institute's own administrative Ministry/ Department.

Please report the amount in Rs. crores.

NUMBER

Q30: What was the total external research and development funding amount received from non-government sources?

Sources could include foreign university grants, trust grants, industry donations and project funding from industry, philanthropy, CSR.

Please report the amount in Rs. crores.

NUMBER

Q31: What was the number of international collaborative projects executed with industry?

'International collaboration' means that at least one industry has to be based overseas.

NUMBER

Q32: What were the number of international collaborative projects executed with academic institutions/research labs?

NUMBER

Q33: *What was the number of international academic collaborations measured by publications co-authored with other academic institutions and/or industry in other countries?

Please use Web of Science or Scopus database to report this number.

NUMBER

Q34: What was the number of national collaborative projects executed with industry?

NUMBER

Q35: What was the number of national collaborative projects executed with academic institutions/research labs?

NUMBER

Q36: *What were the number of national academic collaborations measured by publications co-authored with other academic institutions and/or industry within the country?

Please use Web of Science or Scopus database to report this number.

NUMBER

Q37: *How many scientists from your organisation were attached to other industry/ academic institutions under an exchange program?

NUMBER

Q38: To what extent do you agree that the R&D carried out is in line with the organisation's vision, mission and objectives?

- ☐ Strongly Agree
- ☐ Somewhat Agree
- ☐ No opinion
- ☐ Somewhat disagree
- ☐ Strongly Disagree

Q39: *List the top three new research fields/innovations/services introduced by the organisation.

1

2

3

Q40: The following set of questions pertain to the scientific strategy of the organisation:

Q40a: Is there a scientific strategy defined to work towards the mandate?

☐ Yes ☐ No

Q40b: Does it include future evolution of the scientific field?

☐ Yes ☐ No

Q40c: Does it define existing problems related to social or economic situation of the nation?

☐ Yes ☐ No

Q40d: Has it worked towards solving these problems?

☐ Yes ☐ No

Q40e: Does it identify potential partnerships for impactful research?

☐ Yes ☐ No

Q40f: Has the mission/vision evolved in last 5 years?

☐ Yes ☐ No

Q41: What was the percentage of permanent scientists and contractual researchers to overall staff?

Permanent scientists include Scientist B/Level 10 or equivalent and above. Contractual researchers include researchers hired for projects, JRFs, SRFs and other fellowship awardees, etc.

PERCENTAGE

Q42: What was the percentage of budget spent on R&D and S&T to your organisation's overall budget?

Budget spent on R&D and S&T excludes administrative expenses from the overall budget.

PERCENTAGE

Q43: Does your organisation effectively communicate its objective and strategy to its staff?

☐ Yes ☐ No

Q44: Does your organisation have all requisite SOP/guidelines for its processes?

☐ Yes ☐ No

Q45: *Are there initiatives in place to promote intra-organisational collaborations?

Some examples include Faculty Talks, Retreats, Research Council Meetings, Scientific Group Meetings, Annual Research Meets etc.

☐ Yes ☐ No

Q46: *Has your organisation deployed any software system to track and manage research projects through its life-cycle, from conception to completion?

☐ Yes ☐ No

Q47: *Does your organisation have necessary ethics guidelines and policies in place?

☐ Yes ☐ No

Q48: Does your organisation have a sexual harassment mitigation cell with requisite policies and procedures?

☐ Yes ☐ No

Q49: Does your organisation have a public grievance redressal cell?

☐ Yes ☐ No

Q50: *Does your organisation have national/ international accreditation/ certification for its lab procedure?

☐ Yes ☐ No

Q51: Does your organisation have transparent recruitment guidelines and processes in place?

☐ Yes ☐ No

Q52: *What is the number of outside researchers supported by your organisation who undertook research at your organisation?

Outside researchers include college teachers, university faculty, doctoral students, scientists from other institutions and industry.

NUMBER

Q53: Does your organisation website capture details of your R&D facility, research manpower and mandatory disclosures?

☐ Yes ☐ No

Q54: Are website updates and maintenance carried out as per schedule?

☐ Yes ☐ No

Q55: *Does your organisation have an EDI (Equity, Diversity & Inclusion) cell?

☐ Yes ☐ No

Q56: What percentage of the total scientific and research staff at your organisation are young scientists and researchers?

Scientists and researchers include permanent scientists (Scientist B/Level 10 or equivalent and above) and contractual researchers (researchers hired for projects, JRFs , SRFs and other fellowship awardees, etc.).

A young scientist or researcher is of age =<40 (as on 1st July (of the relevant year)).

PERCENTAGE

Q57: What percentage of the total scientific and research staff at your organisation are women scientists and researchers?

Scientists and researchers include permanent scientists (Scientist B/Level 10 or equivalent and above) and contractual researchers (researchers hired for projects, JRFs , SRFs and other fellowship awardees, etc.).

PERCENTAGE

Q58: *Are the facilities at your organisation differently-abled friendly?

☐ Yes ☐ No

Q59: What percentage of the total budget of your organisation is spent on training and skill up-gradation of your staff?

PERCENTAGE

Q60a: Do you have a structured career progression plan (career growth through promotion) for your non-scientific staff?

☐ Yes ☐ No

Q60b: Do you have a structured career progression plan (career growth through promotion) for your scientific staff?

☐ Yes ☐ No

Q61: What percentage of your scientists have undergone a career development programme on an annual basis?

PERCENTAGE

Q62: Does your organisation have incentives in place to promote talent?

Examples include higher education, further training, nominations for awards/ recognitions, participation in conferences/seminars, sabbaticals, monetary awards and nominations to advisory committees.

☐ Yes ☐ No

A.3.2 Applied R&D Labs Questionnaire

Q1: *What are the number of Technologies (at TRL 5 and higher) targeted towards achieving Sustainable Development Goals and National Programs?

NUMBER

Please indicate the relevant SDGs from the list provided below

- [ ] Goal 1: No poverty
- [ ] Goal 2: Zero hunger
- [ ] Goal 3: Good health and well-being
- [ ] Goal 4: Quality education
- [ ] Goal 5: Gender equality
- [ ] Goal 6: Clean water and sanitation
- [ ] Goal 7: Affordable and clean energy
- [ ] Goal 8: Decent work and economic growth
- [ ] Goal 9: Industry, innovation and infrastructure
- [ ] Goal 10: Reduced inequalities
- [ ] Goal 11: Sustainable cities and communities
- [ ] Goal 12: Responsible consumption and production
- [ ] Goal 13: Climate action
- [ ] Goal 14: Life Below Water
- [ ] Goal 15: Life on land
- [ ] Goal 16: Peace, justice and strong institutions
- [ ] Goal 17: Partnerships for the goals

Please indicate the relevant National Programs from the list provided below

- [ ] National Health Protection Scheme
- [ ] Mid-day Meal Program
- [ ] Swachh Bharat Mission
- [ ] 'Housing for All by 2022' Mission
- [ ] National Rural Drinking Water Program
- [ ] Jan Dhan Yojna
- [ ] Skill India Mission
- [ ] Make In India
- [ ] Shramew Jayate Yojna
- [ ] National Ayush Mission (NAM)
- [ ] Hriday Scheme
- [ ] Ujala Yojna
- [ ] Atal Pension Yojna
- [ ] Pradhan Mantri Swasthya Suraksha Yojana (PMSSY)
- [ ] Smart Cities Mission
- [ ] AMRUT
- [ ] UDAY

- [ ] Start Up India
- [ ] Gramoday se Bharat Uday
- [ ] Pradhan Mantri Ujjwala Yojana (PMUY)
- [ ] Namami Gange
- [ ] National Super Computing Mission
- [ ] National Inter Disciplinary Cyber Physical Systems
- [ ] Other

Q2: *What were the total number of projects executed?

Projects executed in a particular year would include projects started in the relevant year or completed in the relevant year. They would also include multi-year projects that may have started in a previous financial year and are on-going in the relevant year.

Please include all projects that have been undertaken either as a standalone project or those falling under particular themes or programmes.

NUMBER

Q3a: Who were the main beneficiaries of your organisation's programmes?

Select all that apply

- [ ] Individuals
- [ ] NGOs
- [ ] Industry
- [ ] Government Departments

Q3b: Describe how the beneficiaries were impacted by the organisation's programmes.

DETAILS

Q4: What was the total number of outreach activities conducted for schools and colleges for the promotion of S&T?

Examples of outreach activities include open house exhibitions, lecture demonstrations, student delegation by schools and colleges Science Day activities, INSPIRE camps, etc.

NUMBER

Q5: What was the number of persons who attended skill development, entrepreneurship and innovation trainings organised by your organisation?

Examples of skill development, entrepreneurship and innovation trainings include teacher training, IT skilling, technical training that may culminate in variety of entrepreneurial activities etc.

NUMBER

Q6a: What was the total number of national programs - S&T symposia, conferences etc. - organised by your organisation?

National Programs should have a minimum attendance of 50.

NUMBER

Q6b: What was the total number of international programs - S&T symposia, conferences etc. organised by your organisation?

International programs should have a minimum attendance of 100 and at least 5 foreign speakers.

NUMBER

Q7: How did your organisation contribute to increase in existing employee base/new job creation through IP or technologies transferred?

DETAILS

Q8a: What was the increase in the number of permanent scientists (Scientist B/Level 10 or equivalent and above)?

The increase should be calculated as the difference in staff between the reporting year and the previous year.

NUMBER

Q8b: What was the increase in the number of contractual researchers for projects?

The increase should be calculated as the difference in staff between the reporting year and the previous year.

NUMBER

Q9: *What was the total number of start-ups incubated in the premises of your organisation having access to all incubation facilities of your organisation?

An incubated startup will have access to all incubator facilities like land, equipment, research support, mentoring, auxiliary/technical support such as marketing, accounting, legal help etc.

NUMBER

Q10: *What was the total number of incubated startups successfully exited by your organisation?

Successful exits are those who have graduated from the incubation program of the organisation under organisation's Policy except those who are compulsorily retired/ removed/ terminated under the organisation's Policy.

NUMBER

Q11: *What was the total number of new hires by the current incubatees at your organisation?

NUMBER

Q12a: *What was the total number of PhDs awarded by your organisation or awarded through collaboration with a University?

NUMBER

Q12b: *What was the total number of Masters degrees awarded by your organisation awarded through collaboration with a University?

NUMBER

Q12c: *What was the total number of graduate degrees awarded by your organisation awarded through collaboration with a University?

NUMBER

Q13: Whether the PhDs have been examined by one or more foreign assessors as an Institute policy?

☐ Yes ☐ No

Q14: What were the total number of interns trained at your organisation?

The term "interns" is used broadly here to include apprentices, summer interns, dissertation students, engineering trainees, etc.

NUMBER

Q15a: *What was the total number of national awards and recognitions received by members of your organisation?

Only include Shanti Swarup Bhatnagar awardees, Padma awardees, Infosys Prize awardees.

NUMBER

Q15b: *What was the total number of national fellowships awarded to members of your organisation?

Only include Indian National Science Academy, Indian National Academy of Engineering, National Academy of Sciences, India, Indian Academy of Sciences fellowships.

NUMBER

Q16a: *What was the total number of international awards and recognitions received by the members of your organisation?

Only include awards by EMBO, US Presidential Young Investigator Award.

NUMBER

Q16b: *What was the total number of international fellowships awarded to members of your organisation?

Only include Fellowship of Royal Society, US National Academy of Sciences, The World Academy of Sciences.

NUMBER

Q17: *What was the number of publications in quality peer reviewed journals?

Please use Web of Science or Scopus database to report this number.

NUMBER

Q18: *What were the number of commissioned technology development/design/project reports prepared by your organisation?

Reports include detailed process technology report, process design report, process equipment design & development, toxicological studies, detailed process control & instrumentation scheme for a technology, design of an automated production etc. commissioned by the Government of India, State Governments, Public Sector Undertakings and private sector firms.

NUMBER

Q19: *What was the number of citations received by papers published in the preceding three calendar years?

Please use Web of Science or Scopus database to report this number.

NUMBER

Q20: *What was the percentage of publications in top 10% of journals as per Impact Factor by subject category?

Please use InCites or Scimago database to report this number.

NUMBER

Q21a: *What were the total number of patents filed?

Please include domestic and international filings.

NUMBER

Q21b: *What were the total number of trademarks filed?

Please include domestic and international filings.

NUMBER

Q21c: *What were the total number of designs filed?

Please include domestic and international filings.

NUMBER

Q21d: *What were the total number of copyrights filed?

Please include domestic and international filings.

NUMBER

Q21e: *What were the total number of GI of goods filed?

Please include domestic and international filings.

NUMBER

Q21f: *What were the total number of plant varieties filed?

Please include domestic and international filings.

NUMBER

Q21g: *What were the total number of semiconductor Integrated Circuit layout applications filed?

Please include domestic and international filings.

NUMBER

Q22a: *What were the total number of patents granted?

Please include domestic and international filings.

NUMBER

Q22b: *What were the total number of trademarks granted?

Please include domestic and international filings.

NUMBER

Q22c: *What were the total number of designs granted?

Please include domestic and international filings.

NUMBER

Q22d: *What were the total number of copyrights granted?

Please include domestic and international filings.

NUMBER

Q22e: *What were the total number of GI of goods granted?

Please include domestic and international filings.

NUMBER

Q22f: *What were the total number of plant varieties granted?

Please include domestic and international filings.

NUMBER

Q22g: *What were the total number of semiconductor Integrated Circuit layout applications granted?

Please include domestic and international filings.

NUMBER

Q23a: *What were the different number of patents licensed out?

NUMBER

Q23b: *What were the different number of trademarks licensed out?

NUMBER

Q23c: *What were the different number of designs licensed out?

NUMBER

Q23d: *What were the different number of copyrights licensed out?

NUMBER

Q23e: *What were the different number of GI of goods licensed out?

NUMBER

Q23f: *What were the different number of plant varieties licensed out?

NUMBER

Q23g: *What were the different number of semiconductor Integrated Circuit layout applications licensed out?

NUMBER

Q24a: *What was the number of national policies, regulations and standards finalised during the year in respect of which your organisation had made a contribution so acknowledged in the approved documents?

NUMBER

Q24b: *What was the number of international policies, regulations and standards finalised during the year in respect of which your organisation had made a contribution so acknowledged in the approved documents?

NUMBER

Q25a: *What were the different number of technologies transferred domestically by your organisation?.

Technologies may be transferred through direct sale, license, spinoffs or transfer for use at cost or free of cost.

NUMBER

Q25b: *What were the different number of technologies transferred internationally by your organisation?

Technologies may be transferred through direct sale, license, spinoffs or transfer for use at cost or free of cost.

NUMBER

Q26a: *What was the number of new services introduced in the market or being used by industry or other research organisations including yours?

NUMBER

Q26b: * What was the number of new products introduced in the market or being used by industry or other research organisations including yours?

New products would include for example novel drugs or major instrumentation

NUMBER

Q27: What were the total annual earnings from government sources in the following areas?

Government sources include Government of India, State governments and CPSE / State PSE.

Please report all amounts in Rs. crores.

a. Consultancy fees, including earnings from contract research, testing and analysis

NUMBER

b. Training fees, including earnings from courses and workshops

NUMBER

c. Technology transfer, including earnings from product commercialisation, sale of books/publications, and licensing of patents, trademarks, etc.

NUMBER

Q28: What were the total annual earnings from non- government sources in the following areas?

Please report all amounts in Rs. crores.

a) Consultancy fees, including earnings from contract research, testing and analysis

NUMBER

b) Training fees, including earnings from courses and workshops

NUMBER

c) Technology transfer, including earnings from product commercialisation, sale of books/publications, and licensing of patents, trademarks, etc.

NUMBER

Q29: What was the total external research and development funding amount received from government sources?

Government sources include Government of India, State governments and CPSE / State PSE. External research and development funding does not include core support/ assistance from Institute's own administrative Ministry/ Department.

Please report the amount in Rs. crores.

NUMBER

Q30: What was the total external research and development funding amount received from non-government sources?

Sources could include foreign university grants, trust grants, industry donations and project funding from industry, philanthropy, CSR.

Please report the amount in Rs. crores.

NUMBER

Q31: What was the number of international collaborative projects executed with industry?

'International collaboration' means that at least one industry has to be based overseas.

NUMBER

Q32: What were the number of international collaborative projects executed with academic institutions/research labs?

NUMBER

Q33: *What was the number of international academic collaborations measured by publications co-authored with other academic institutions and/or industry in other countries?

Please use Web of Science or Scopus database to report this number.

NUMBER

Q34: What was the number of national collaborative projects executed with industry?

NUMBER

Q35: What was the number of national collaborative projects executed with academic institutions/research labs?

NUMBER

Q36: *What were the number of national academic collaborations measured by publications co-authored with other academic institutions and/or industry within the country?

Please use Web of Science or Scopus database to report this number.

NUMBER

Q37: *How many scientists from your organisation were attached to other industry/ academic institutions under an exchange program?

NUMBER

Q38: To what extent do you agree that the R&D carried out is in line with your organisation's vision, mission and objectives?

- [ ] Strongly Agree
- [ ] Somewhat Agree
- [ ] No opinion
- [ ] Somewhat disagree
- [ ] Strongly Disagree

Q39: *List the top three new research fields/innovations/services introduced by your organisation.

1

2

3

Q40: The following set of questions pertain to the scientific strategy of the organisation:

Q40a: Is there a scientific strategy defined to work towards the mandate?

☐ Yes ☐ No

Q40b: Does it include future evolution of the scientific field?

☐ Yes ☐ No

Q40c: Does it define existing problems related to social or economic situation of the nation?

☐ Yes ☐ No

Q40d: How will your organisation support in solving these problems?

DETAILS

Q40e: Does it identify potential partnerships for impactful research?

☐ Yes ☐ No

Q40f: Describe how the mission/vision evolved in last 5 years

DETAILS

Q41: What was the percentage of permanent scientists and contractual researchers to overall staff?

Permanent scientists include Scientist B/Level 10 or equivalent and above. Contractual researchers include researchers hired for projects, JRFs, SRFs and other fellowship awardees, etc.

PERCENTAGE

Q42: What was the percentage of budget spent on R&D and S&T to your organisation's overall budget?

Budget spent on R&D and S&T excludes administrative expenses from the overall budget.

PERCENTAGE

Q43: Does your organisation effectively communicate its objective and strategy to its staff?

☐ Yes ☐ No

Q44: Does your organisation have all requisite SOP/guidelines for its processes?

☐ Yes ☐ No

Q45: *Are there initiatives in place to promote intra-organisational collaborations?

Some examples include Faculty Talks, Retreats, Research Council Meetings, Scientific Group Meetings, Annual Research Meets etc.

☐ Yes ☐ No

Q46: *Has your organisation deployed any software system to track and manage research projects through its life-cycle, from conception to completion?

☐ Yes ☐ No

Q47: *Does your organisation have necessary ethics guidelines and policies in place?

☐ Yes ☐ No

Q48: Does your organisation have a sexual harassment mitigation cell with requisite policies and procedures?

☐ Yes ☐ No

Q49: Does your organisation have a public grievance redressal cell?

☐ Yes ☐ No

Q50: *Does your organisation have national/ international accreditation/ certification for its lab procedure?

☐ Yes ☐ No

Q51: Does your organisation have transparent recruitment guidelines and processes in place?

☐ Yes ☐ No

Q52: *What is the number of outside researchers supported by your organisation who undertook research at your organisation?

Outside researchers include college teachers, university faculty, doctoral students, scientists from other institutions and industry.

NUMBER

Q53: Does your organisation website capture details of your R&D facility, research manpower and mandatory disclosures?

☐ Yes ☐ No

Q54: Are website updates and maintenance carried out as per schedule?

☐ Yes ☐ No

Q55: *Does your organisation have an EDI (Equity, Diversity & Inclusion) cell?

☐ Yes ☐ No

Q56: What percentage of the total scientific and research staff at your organisation are young scientists and researchers?

Scientists and researchers include permanent scientists (Scientist B/Level 10 or equivalent and above) and contractual researchers (researchers hired for projects, JRFs , SRFs and other fellowship awardees, etc.).

A young scientist or researcher is of age =<40 (as on 1st July (of the relevant year)).

PERCENTAGE

Q57: What percentage of the total scientific and research staff at your organisation are women scientists and researchers?

Scientists and researchers include permanent scientists (Scientist B/Level 10 or equivalent and above) and contractual researchers (researchers hired for projects, JRFs , SRFs and other fellowship awardees, etc.).

PERCENTAGE

Q58: *Are the facilities at your organisation differently-abled friendly?

☐ Yes ☐ No

Q59: What percentage of the total budget of your organisation is spent on training and skill up-gradation of your staff?

PERCENTAGE

Q60a: Do you have a structured career progression plan (career growth through promotion) for your non-scientific staff?

☐ Yes ☐ No

Q60b: Do you have a structured career progression plan (career growth through promotion) for your scientific staff?

☐ Yes ☐ No

Q61: What percentage of your scientists have undergone a career development programme on an annual basis?

PERCENTAGE

Q62: Does your organisation have incentives in place to promote talent?

Examples include higher education, further training, nominations for awards/ recognitions, participation in conferences/seminars, sabbaticals, monetary awards and nominations to advisory committees.

☐ Yes ☐ No

A.3.3 Services R&D Labs Questionnaire

Q1: *What are the number of Technologies (at TRL 6 and higher) targeted towards achieving Sustainable Development Goals and National Programs?

NUMBER

Please indicate the relevant SDGs from the list provided below

- [ ] Goal 1: No poverty
- [ ] Goal 2: Zero hunger
- [ ] Goal 3: Good health and well-being
- [ ] Goal 4: Quality education
- [ ] Goal 5: Gender equality
- [ ] Goal 6: Clean water and sanitation
- [ ] Goal 7: Affordable and clean energy
- [ ] Goal 8: Decent work and economic growth
- [ ] Goal 9: Industry, innovation and infrastructure
- [ ] Goal 10: Reduced inequalities
- [ ] Goal 11: Sustainable cities and communities
- [ ] Goal 12: Responsible consumption and production
- [ ] Goal 13: Climate action
- [ ] Goal 14: Life Below Water
- [ ] Goal 15: Life on land
- [ ] Goal 16: Peace, justice and strong institutions
- [ ] Goal 17: Partnerships for the goals

Please indicate the relevant National Programs from the list provided below

- [ ] National Health Protection Scheme
- [ ] Mid-day Meal Program
- [ ] Swachh Bharat Mission
- [ ] 'Housing for All by 2022' Mission
- [ ] National Rural Drinking Water Program
- [ ] Jan Dhan Yojna
- [ ] Skill India Mission
- [ ] Make In India
- [ ] Shramew Jayate Yojna
- [ ] National Ayush Mission (NAM)
- [ ] Hriday Scheme
- [ ] Ujala Yojna
- [ ] Atal Pension Yojna
- [ ] Pradhan Mantri Swasthya Suraksha Yojana (PMSSY)
- [ ] Smart Cities Mission
- [ ] AMRUT
- [ ] UDAY

- [ ] Start Up India
- [ ] Gramoday se Bharat Uday
- [ ] Pradhan Mantri Ujjwala Yojana (PMUY)
- [ ] Namami Gange
- [ ] National Super Computing Mission
- [ ] National Inter Disciplinary Cyber Physical Systems
- [ ] Other

Q2: *What were the total number of projects executed?

Projects executed in a particular year would include projects started in the relevant year or completed in the relevant year. They would also include multi-year projects that may have started in a previous financial year and are on-going in the relevant year.

Please include all projects that have been undertaken either as a standalone project or those falling under particular themes or programmes.

NUMBER

Q3a: Who were the main beneficiaries of your organisation's programmes?

Select all that apply

- [ ] Individuals
- [ ] NGOs
- [ ] Industry
- [ ] Government Departments

Q3b: Describe how the beneficiaries were impacted by the organisation's programmes.

DETAILS

Q4: How did you contribute to national policy improvement?

a) Regulation or policy explicitly references research or work done by your organisation

DETAILS

b) Number of research staff appointed to government or national committees

NUMBER

Q5: What were the total number of outreach activities conducted for schools and colleges for the promotion of S&T?

Examples of outreach activities include interactive programmes like open house exhibitions, lecture demonstrations, student delegation by schools and colleges, Science Day activities, INSPIRE camps etc.

NUMBER

Q6: What was the number of persons who attended skill development, entrepreneurship and innovation trainings organised by your organisation?

Examples of skill development, entrepreneurship and innovation trainings include teacher training, IT skilling, technical training that may culminate in variety of entrepreneurial activities etc.

NUMBER

Q7a: What was the total number of national programs - S&T symposia, conferences etc. - organised by your organisation?

National Programs should have a minimum attendance of 50.

NUMBER

Q7b: What was the total number of international programs - S&T symposia, conferences etc. organised by your organisation?

International programs should have a minimum attendance of 100 and at least 5 foreign speakers.

NUMBER

Q8: How did your organisation contribute to increase in existing employee base/new job creation through IP or technologies transferred?

DETAILS

Q9a: *What was the increase in the number of permanent scientists (Scientist B/ Level 10 or equivalent and above)?

The increase should be calculated as the difference in staff between the reporting year and the previous year.

NUMBER

Q9b: *What was the increase in the number of contractual researchers for projects?

The increase should be calculated as the difference in staff between the reporting year and the previous year.

NUMBER

Q10: *What was the total number of start-ups incubated in the premises of your organisation having access to all incubation facilities of your organisation?

An incubated startup will have access to all incubator facilities like land, equipment, research support, mentoring, auxiliary/technical support such as marketing, accounting, legal help etc.

NUMBER

Q11: *What was the total number of incubated startups successfully exited by your organisation?

Successful exits are those who have graduated from the incubation program of the organisation under organisation's Policy except those who are compulsorily retired/ removed/ terminated under the organisation's Policy.

NUMBER

Q12: *What was the total number of new hires by the current incubatees at your organisation?

NUMBER

Q13: What was the total number of trainings imparted by your organisation?

Examples of trainings include professional courses, teacher training, technical training, executive programmes etc.

NUMBER

Q14: How many skill development programmes did your lab conduct?

Examples of courses and programmes include machinist training, IT skilling, technician training like lab technician, hardware technician etc.

NUMBER

Q15: How many permanent scientists from your organisation were deputed to provide training?

Permanent scientists include Scientist B/Level 10 or equivalent and above.

Conferences and seminars are not to be included here.

NUMBER

Q16a: *What was the total number of national awards and recognitions received by members of your organisation?

Only include Shanti Swarup Bhatnagar awardees, Padma awardees, Infosys Prize awardees.

NUMBER

Q16b: *What was the total number of national fellowships awarded to members of your organisation?

Only include Indian National Science Academy, Indian National Academy of Engineering, National Academy of Sciences, India, Indian Academy of Sciences fellowships.

NUMBER

Q17a: *What was the total number of international awards and recognitions received by the members of your organisation?

Only include awards by EMBO, US Presidential Young Investigator Award.

NUMBER

Q17b: *What was the total number of international fellowships awarded to members of your organisation?

Only include Fellowship of Royal Society, US National Academy of Sciences, The World Academy of Sciences.

NUMBER

Q18a: *What was the number of publications in quality peer reviewed journals?

Please use Web of Science or Scopus database to report this number.

NUMBER

Q18b: *What were the number of commissioned technology development/design// project reports prepared by your organisation?

Reports include detailed process technology report, process design report, process equipment design & development, toxicological studies, detailed process control & instrumentation scheme for a technology, design of an automated production etc. commissioned by the Government of India, State Governments, Public Sector Undertakings and private sector firms.

NUMBER

Q19: *What were the number of technology documents prepared by your organisation in the last three financial years?

Eg. For the year 2019-20 please provide the number of technology documents prepared for 2019-20, 2018-19 and 2017-18 and accordingly for the other reporting years.

Technology documents may include patent searches, material data sheets, test methods and reports, manufacturing standards, system requirements, system architecture, or system design documents.

NUMBER

Q20a: *What was the number of national recognitions received by your organisation?

NUMBER

Q20b: *What was the number of international recognitions received by your organisation?

NUMBER

Q21: *What were the number of reports leading to designs and products?

NUMBER

Q22a: *What were the total number of patents filed?

Please include domestic and international filings.

NUMBER

Q22b: *What were the total number of trademarks filed?

Please include domestic and international filings.

NUMBER

Q22c: *What were the total number of designs filed?

Please include domestic and international filings.

NUMBER

Q22d: *What were the total number of copyrights filed?

Please include domestic and international filings.

NUMBER

Q22e: *What were the total number of GI of goods filed?

Please include domestic and international filings.

NUMBER

Q22f: *What were the total number of plant varieties filed?

Please include domestic and international filings.

NUMBER

Q22g: *What were the total number of semiconductor Integrated Circuit layout applications filed?

Please include domestic and international filings.

NUMBER

Q23a: *What were the total number of patents granted?

Please include domestic and international filings.

NUMBER

Q23b: *What were the total number of trademarks granted?

Please include domestic and international filings.

NUMBER

Q23c: *What were the total number of designs granted?

Please include domestic and international filings.

NUMBER

Q23d: *What were the total number of copyrights granted?

Please include domestic and international filings.

NUMBER

Q23e: *What were the total number of GI of goods granted?

Please include domestic and international filings.

NUMBER

Q23f: *What were the total number of plant varieties granted?

Please include domestic and international filings.

NUMBER

Q23g: *What were the total number of semiconductor Integrated Circuit layout applications granted?

Please include domestic and international filings.

NUMBER

Q24a: *What were the different number of patents licensed out?

NUMBER

Q24b: *What were the different number of trademarks licensed out?

NUMBER

Q24c: *What were the different number of designs licensed out?

NUMBER

Q24d: *What were the different number of copyrights licensed out?

NUMBER

Q24e: *What were the different number of GI of goods licensed out?

NUMBER

Q24f: *What were the different number of plant varieties licensed out?

NUMBER

Q24g: *What were the different number of semiconductor Integrated Circuit layout applications licensed out?

NUMBER

Q25a: *What was the number of national policies, regulations and standards finalised during the year in respect of which your organisation had made a contribution so acknowledged in the approved documents?

NUMBER

Q25b: *What was the number of international policies, regulations and standards finalised during the year in respect of which your organisation had made a contribution so acknowledged in the approved documents?

NUMBER

Q26a: *What were the different number of technologies transferred domestically by your organisation?

Technologies may be transferred through direct sale, license, spinoffs or transfer for use at cost or free of cost.

NUMBER

Q26b: *What were the different number of technologies transferred internationally by your organisation?

Technologies may be transferred through direct sale, license, spinoffs or transfer for use at cost or free of cost.

NUMBER

Q27b. *What was the number of new products introduced in the market or being used by industry or other research organisations including yours?

New products would include for example novel drugs or major instrumentation

NUMBER

Q28: What were the total annual earnings from government sources in the following areas?

Government sources include Government of India, State governments and CPSE / State PSE.

Please report all amounts in Rs. crores.

a. Consultancy fees, including earnings from contract research, testing and analysis

NUMBER

b. Training fees, including earnings from courses and workshops

NUMBER

c. Technology transfer, including earnings from product commercialisation, sale of books/publications, and licensing of patents, trademarks, etc.

NUMBER

Q29: What were the total annual earnings from non- government sources in the following areas?

Please report all amounts in Rs. crores.

a) Consultancy fees, including earnings from contract research, testing and analysis

NUMBER

b) Training fees, including earnings from courses and workshops

NUMBER

c) Technology transfer, including earnings from product commercialisation, sale of books/publications, and licensing of patents, trademarks, etc.

NUMBER

Q30: What was the total external research and development funding amount received from government sources?

Government sources include Government of India, State governments and CPSE / State PSE. External research and development funding does not include core support/ assistance from Institute's own administrative Ministry/ Department.

Please report the amount in Rs. crores.

NUMBER

Q31: What was the total external research and development funding amount received from non-government sources?

Sources could include foreign university grants, trust grants, industry donations and project funding from industry, philanthropy, CSR.

Please report the amount in Rs. crores.

NUMBER

Q32: What was the number of international collaborative projects executed with industry?

'International collaboration' means that at least one industry has to be based overseas

NUMBER

Q33: What were the number of international collaborative projects executed with academic institutions/research labs?

'International collaboration' means that at least one industry has to be based overseas

NUMBER

Q34: *What was the number of international academic collaborations measured by publications co-authored with other academic institutions and/or industry in other countries?

Please use Web of Science or Scopus database to report this number.

NUMBER

Q35: What was the number of national collaborative projects executed with industry?

NUMBER

Q36: What was the number of national collaborative projects executed with academic institutions/research labs?

NUMBER

Q37: *What were the number of national academic collaborations measured by publications co-authored with other academic institutions and/or industry within the country?

Please use Web of Science or Scopus database to report this number

NUMBER

Q38: To what extent do you agree that the R&D carried out is in line with your organisation's vision, mission and objectives?

- ☐ Strongly Agree
- ☐ Somewhat Agree
- ☐ No opinion
- ☐ Somewhat disagree
- ☐ Strongly Disagree

Q39: *List the top three new research fields/innovations/services introduced by your organisation.

1

2

3

Q40: The following set of questions pertain to the scientific strategy of the organisation:

Q40a: Is there a scientific strategy defined to work towards the mandate?

- ☐ Yes
- ☐ No

Q40b: Does it include future evolution of the scientific field?

☐ Yes ☐ No

Q40c: Does it define existing problems related to social or economic situation of the nation?

☐ Yes ☐ No

Q40d: How will your organisation will support the solving of these problems?

DETAILS

Q40e: Does it identify potential partnerships for impactful research?

☐ Yes ☐ No

Q40f: Has the mission/vision evolved in last 5 years?

☐ Yes ☐ No

Q41: What was the percentage of permanent scientists and contractual researchers to overall staff?

Permanent scientists include Scientist B/Level 10 or equivalent and above. Contractual researchers include researchers hired for projects, JRFs, SRFs and other fellowship awardees, etc.

PERCENTAGE

Q42: What was the percentage of budget spent on R&D and S&T to your organisation's overall budget?

Budget spent on R&D and S&T excludes administrative expenses from the overall budget.

PERCENTAGE

Q43: Does your organisation effectively communicate its objective and strategy to its staff?

☐ Yes ☐ No

Q44: Does your organisation have all requisite SOP/guidelines for its processes?

☐ Yes ☐ No

Q45: *Are there initiatives in place to promote intra-organisational collaborations?

Some examples include Faculty Talks, Retreats, Research Council Meetings, Scientific Group Meetings, Annual Research Meets etc.

☐ Yes ☐ No

Q46: *Has your organisation deployed any software system to track and manage research projects through its life-cycle, from conception to completion?

☐ Yes ☐ No

Q47: *Does your organisation have necessary ethics guidelines and policies in place?

☐ Yes ☐ No

Q48: Does your organisation have a sexual harassment mitigation cell with requisite policies and procedures?

☐ Yes ☐ No

Q49: Does your organisation have a public grievance redressal cell?

☐ Yes ☐ No

Q50: *Does your organisation have national/ international accreditation/ certification for its lab procedure?

☐ Yes ☐ No

Q51: Does your organisation have transparent recruitment guidelines and processes in place?

☐ Yes ☐ No

Q52: What is the number of outside researchers supported by your organisation who undertook research at your organisation?

Outside researchers include college teachers, university faculty, doctoral students, scientists from other institutions and industry.

NUMBER

Q53: Does your organisation website capture details of your R&D facility, research manpower and mandatory disclosures?

☐ Yes ☐ No

Q54: Are website updates and maintenance carried out as per schedule?

☐ Yes ☐ No

Q55: *Does your organisation have an EDI (Equity, Diversity & Inclusion) cell?

☐ Yes ☐ No

Q56: What percentage of the total scientific and research staff at your organisation are young scientists and researchers?

Scientists and researchers include permanent scientists (Scientist B/Level 10 or equivalent and above) and contractual researchers (researchers hired for projects, JRFs , SRFs and other fellowship awardees, etc.).

A young scientist or researcher is of age =<40 (as on 1st July (of the relevant year)).

PERCENTAGE

Q57: What percentage of the total scientific and research staff at your organisation are women scientists and researchers?

Scientists and researchers include permanent scientists (Scientist B/Level 10 or equivalent and above) and contractual researchers (researchers hired for projects, JRFs , SRFs and other fellowship awardees, etc.).

PERCENTAGE

Q58: *Are the facilities at your organisation differently-abled friendly?

☐ Yes ☐ No

Q59: What percentage of the total budget of your organisation is spent on training and skill up-gradation of your staff?

PERCENTAGE

Q60a: Do you have a structured career progression plan (career growth through promotion) for your non-scientific staff?

☐ Yes ☐ No

Q60b: Do you have a structured career progression plan (career growth through promotion) for your scientific staff?

☐ Yes ☐ No

Q61: What percentage of your scientists have undergone a career development programme on an annual basis?

PERCENTAGE

Q62: Does your organisation have incentives in place to promote talent?

Examples include higher education, further training, nominations for awards/ recognitions, participation in conferences/seminars, sabbaticals, monetary awards and nominations to advisory committees.

☐ Yes ☐ No

Appendix A.4
TEMPLATES FOR SUPPORTING DOCUMENTS

The table below is a guide to the templates for the participants for the larger study. Since several questions are similar across the three categories, namely Basic, Applied and Services, the table lists down each template name and the corresponding question numbers in the respective questionnaires for the participant's ease. The table is followed by the eighteen templates which the respondents would be required to fill and submit. Brief descriptions of the templates have also been provided.

Table: Participant's guide to the templates

Template Name	Basic labs (Q. No.)	Applied labs (Q. No.)	Services labs (Q.No.)
1 - Technologies and SDGs	Q1	Q1	Q1
2 - Projects Executed	Q2, Q31, Q32, Q34 & Q35	Q2, Q31, Q32, Q34 & Q35	Q2, Q32, Q33, Q35 & Q36
3 - Workforce	Q8, Q37, Q41, Q56 & Q57	Q8, Q37, Q41, Q56 & Q57	Q9, Q41, Q56 & Q57
4 - Startups incubation & Exit	Q9 & Q10	Q9 & Q10	Q10 & Q11
5 - Employment generated by startups	Q11	Q11	Q12
6 - Consultancies for startups	Q12		
7 - Human resources generated	Q13	Q12	
8 - Awards and Fellowships	Q16, Q17	Q15, Q16	Q16, Q17
9 - Publications	Q18a, Q33 & Q36	Q17, Q33 & Q36	Q18a, Q34 & Q37
10 - Commissioned Technical Re-ports	Q18b	Q18	Q18b
11 - Technology documents pre-pared			Q19
12 - Recognitions			Q20

Template Name	Basic labs (Q. No.)	Applied labs (Q. No.)	Services labs (Q.No.)
13 - Reports leading to designs and products			Q21
14 - IPR Filed	Q21	Q21	Q22
15 - IPR Granted	Q22	Q22	Q23
16 - Technologies Transferred	Q23 & Q25	Q23 & Q25	Q24 & Q26
17 - New services and products	Q26	Q26	Q27
18 - Outside researchers	Q52	Q52	Q52

Template 1: Technologies and SDGs

The Template on Technologies and SDGs requests for the list of technologies targeted towards achieving Sustainable Development Goals (SDGs) and National Programs. To indicate the corresponding SDG and/or National Program, the labs will be required to enter the relevant codes have been provided below the table in the template. In addition to this, the template also requests for the Technology Readiness Levels (TRL) of the technologies reported by the labs.

TECHNOLOGIES AND SDGs

List of Technologies targeted towards achieving Sustainable Development Goals and National Programs
(You can enter more than one relevant SDGs and/or National Programs per technology)

Add rows if required.
Enter the codes from the list provided below the table.

Year	S. No.	Name of Technology	TRL of the technology	Relevant SDGs	Relevant National Programmes
2017-18					
2017-18					
2018-19					
2018-19					
2019-20					
2019-20					

List of Sustainable Development	Code
Goal 1: No poverty Goal	SDG1
Goal 2: Zero hunger Goal	SDG2
Goal 3: Good health and well-being Goal	SDG3
Goal 4: Quality education Goal	SDG4
Goal 5: Gender equality Goal	SDG5
Goal 6: Clean water and sanitation Goal	SDG6
Goal 7: Affordable and clean energy Goal	SDG7
Goal 8: Decent work and economic growth Goal	SDG8
Goal 9: Industry, innovation and infrastructure Goal	SDG9
Goal 10: Reduced inequalities Goal	SDG10
Goal 11: Sustainable cities and communities Goal	SDG11
Goal 12: Responsible consumption and production Goal	SDG12
Goal 13: Climate action Goal	SDG13
Goal 14: Life Below Water Goal	SDG14
Goal 15: Life on land Goal	SDG15
Goal 16: Peace, justice and strong institutions	SDG16
Goal 17: Partnerships for the goals	SDG17

List of National Programmes:	Code
National Health Protection Scheme	NP1
Mid-day Meal Programme	NP2
Swachh Bharat Mission	NP3
'Housing for All by 2022' Mission	NP4
National Rural Drinking Water Programme	NP5
Jan Dhan Yojna	NP6
Skill India Mission	NP7
Make In India	NP8
Shramew Jayate Yojna	NP9
National Ayush Mission (NAM)	NP10
Hriday Scheme	NP11
Ujala Yojna	NP12
Atal Pension Yojna	NP13
Pradhan Mantri Swasthya Suraksha Yojana (PMSSY)	NP14
Smart Cities Mission	NP15
AMRUT	NP16
UDAY	NP17
Start Up India	NP18
Gramoday se Bharat Uday	NP19
Pradhan Mantri Ujjwala Yojana (PMUY)	NP20
Namami Gange	NP21
National Super Computing Mission	NP22
National Inter Disciplinary Cyber Physical Systems	NP23
Other	NP24

Template 2: Projects executed

This template covers projects that were executed by the labs in each reporting year. The template requests for details of the projects such as the name of the project, the name of the sponsoring agency, the amount sanctioned in Rs Lakhs, and the start and end dates of the projects. In addition, the template also asks whether the project was a collaboration, and if yes, then whether the collaboration was a national or international collaboration, and whether the collaboration was with industry or an academic institution. The aim of this template is to help validate data on the number of projects executed, the number of national and international collaborative projects with academic institutions/research labs, and the number of national and international collaborative projects with industry.

Projects Executed

Projects executed in a particular year would include projects started in the relevant year or completed in the relevant year. They would also include multi-year projects that may have started in a previous financial year and are on-going in the relevant year.

Please list all projects that have been undertaken either as a standalone project or those falling under particular themes or programmes. Details of all projects under a particular theme or programme should be provided.

Add rows if required.

Year	S. No.	Project Code	Project Name	Principal Investigator	Sponsoring Agency Name	Sanction Amount (Rs. Lakhs)	Project Start Date	Project End Date	Whether a collaboration?		
									Yes/No	If Yes, enter National/ International?	If Yes, enter Academic Institution/ Research Labs/ Industry
2017-18											
2017-18											
2018-19											
2018-19											
2019-20											
2019-20											

Template 3: Workforce

The workforce template is meant to aid data collection on Scientific staff (permanent scientists and contractual researchers). In addition the template also requests for the number of women and young researchers at the organisation and the number of scientists from the lab attached to other industry/academic labs under an exchange program. Furthermore, total staff is also requested for which includes all of the above and administrative staff. The aim of this template is to help validate data on the increase in scientific staff, the share of scientific staff to overall staff, the share of women and young scientists and researchers to the total scientific staff and the number of scientists from the lab attached to other industry/academic labs under an exchange program.

WORKFORCE

Year	Total Staff at Laboratory (includes permanent scientists, contractual researchers, technical support staff, administrative staff)	No. of staff engaged in research and development activities						
		Number of permanent scientists (Scientist B/Level 10 or equivalent and above) (A)	Number of contractual researchers for projects (B)	Number of technical support staff	Number of Women scientists and researchers (within categories A and B)	Number of young scientists and researchers (age=<40) (within categories A and B)	Number of Scientists from the lab attached to other industry/academic labs under an exchange program	
							National	International
2016-17								
2017-18								
2018-19								
2019-20								

Template 4: Startups Incubation & Exit

This template aims to cover the names of the startups which were incubated and exited from the organisation for all three reporting years. An Incubated startup is one with access to all incubator facilities like land, equipment, research support, mentoring, auxiliary/technical support such as marketing, accounting, legal help etc. While successfully exited startups include startups that graduated from the incubation program of the organisation under the organisation's Policy, except those that are compulsorily retired/removed/terminated under the organisation's Policy.

STARTUPS INCUBATION AND EXIT			
Add rows if required.			
Year	S. No.	Name of the startups incubated	Name of the startups exited
2017-18			
2017-18			
2018-19			
2018-19			
2019-20			
2019-20			

Template 5: Employment generated by startups

This template is aimed to validate the data reported for employment generated by startups currently being incubated at the organisation, by reporting year. The labs have to report the data only after the start of the incubation period of the startups.

EMPLOYMENT GENERATED BY STARTUPS					
Add rows if required.					
S. No.	Name of the startup	Start Date of incubation (mm/yy)	Employment generated by startups currently being incubated		
			2017-18	2018-19	2019-20

Template 6: Consultancies for startups

This template is specific to Basic R&D Labs and aims to validate the data reported for the number of consultancies provided to the startups. It requests for the name of the start up, the start and the end date of the consultancy and the amount charged (if applicable).

CONSULTANCIES FOR STARTUPS								
Add rows if required.								
Year	S. No.	Name of the Startup	Nature of Consultancy	Consultancy Start Date	Consultancy End Date	MoU signed? (Yes/No)	Fee charged? (Yes/No)	If yes, amount charged (in Rs.)
2017-18								
2017-18								
2018-19								
2018-19								
2019-20								
2019-20								

Template 7: Human resources generated

The 'Human Resources Generated' template requests year wise details with respect to Graduate, Master's and PhD degrees awarded by the organisation or in collaboration with a university. The template requires the number of awardees to be listed per discipline, by each reporting year.

	HUMAN RESOURCES GENERATED							
	Add rows if required.							
Year	S. No.	PhDs awarded		Masters degrees awarded		Graduate degrees awarded		Total
		Number of awardees	Discipline	Number of awardees	Discipline	Number of awardees	Discipline	
2017-18								
2017-18								
2018-19								
2018-19								
2019-20								
2019-20								

Template 8: Awards and Fellowships

The template requests for data on awards and fellowships obtained by the scientists of the organisation. The list of acceptable sector-agnostic awards and fellowships have been mentioned in the template along with relevant codes. The codes would have to be filled in corresponding to the names of the awardees in the template. This template aims to validate the data on the national and international awards and fellowships reported by the organisation.

AWARDS AND FELLOWSHIPS			
Add rows if required.			
Year	S. No.	Name of the recipient	Award/ Fellowship (enter code from the list mentioned below)
2017-18			
2017-18			
2018-19			
2018-19			
2019-20			
2019-20			

Note: Please enter the relevant code from the list provided below adjacent to the name of the awardees	
List of acceptable National Awards	**Code**
Shanti Swarup Bhatnagar Award	NA1
Padma Shri	NA2
Padma Bhushan	NA3
Padma Vibhushan	NA4
Infosys Prize	NA5
List of acceptable National Fellowships	**Code**
Indian National Science Academy	NF1
Indian National Academy of Engineering	NF2
National Academy of Sciences, India	NF3
Indian Academy of Sciences fellowships	NF4
List of acceptable International Awards	**Code**
Award by EMBO	IA1
US Presidential Young Investigator	IA2
List of acceptable International Fellowships	**Code**
Fellowship of Royal Society	IF1
US National Academy of Sciences	IF2
The World Academy of Sciences	IF3

Template 9: Publications

The template on publications captures the details of the publications of the organisation such as the title, authors, subject area, journal name and whether the journal is national or international. In addition, the template also asks if the publication was a collaboration with academic institutions/research labs or industry. This template aims to validate the data reported on the number of publications in quality peer reviewed journals and the number of national and international collaborations measured by publications co-authored with academic institutions and/or industry. Labs would require access to Web of Science and Incites or Scopus and Scimago to report publications related data. A non-exhaustive list of the subject area will be shared with the labs for reference.

PUBLICATIONS *Please refer to the Appendix for a non-exhaustive list of subject area								
List of publications in quality peer reviewed journals (as per Web of Science or Scopus)								
Add rows if required.								
Year	S. No.	Title	Authors	Journal Name	Subject Area*	Is the Journal National/ International ?	Whether a collaboration with Academic Institution/ Research Labs/ Industry?	
							Yes/No	If Yes, enter National/ International?
2017								
2017								
2018								
2018								
2019								
2019								

Template 10: Commissioned Technical Reports

In this template commissioned technical reports labs are required to provide details of the reports that include detailed process technology report, process design report, process equipment design & development, toxicological studies, detailed process control & instrumentation scheme for a technology, design of an automated production etc. commissioned by the Government of India, State Governments, Public Sector Undertakings and private sector firms.

Commissioned Technical Reports					
List of commissioned technology development/design/project reports					
Reports include detailed process technology report, process design report, process equipment design & development, toxicological studies, detailed process control & instrumentation scheme for a technology, design of an automated production etc. commissioned by the Government of India, State Governments, Public Sector Undertakings and private sector firms.					
Add rows if required. Please refer to the Appendix for a non-exhaustive list of subject area					
Year	S. No.	Title of the report	Subject Area*	Commissioned by (Government of India/ State Governments/ Public Sector Undertakings/private sector firms)	Date of submission
2017-18					
2017-18					
2018-19					
2018-19					
2019-20					
2019-20					

Template 11: Technology documents prepared

This template is specific to the Services R&D labs and requests for the list of technology documents prepared by labs in the last three financial years for each reporting year. The template requests for data from FY2015-16 to FY2019-20 since the data reported for example, for FY2017-18 would include the reports prepared in FY2015-16, FY2016-17 and FY2017-18. These may include, patent searches, material data sheets, test methods and reports, manufacturing standards, system requirements, system architecture, or system design documents.

Technology documents prepared					
List of technology documents prepared by the organisation in the last three financial years *Technology documents may include patent searches, material data sheets, test methods and reports, manufacturing standards, system requirements, system architecture, or system design documents.*					
Add rows if required Please refer to the Appendix for a non-exhaustive list of subject area					
Year	S. No.	Title of the report	Subject Area*	Commissioned by	Date of submission
2015-16					
2015-16					
2016-17					
2016-17					
2017-18					
2017-18					
2018-19					
2018-19					
2019-20					
2019-20					

Template 12: Recognitions

This template is specific to the Services R&D labs and requests for the list of recognitions received by a lab for each reporting year.

RECOGNITIONS List of Recognitions received by your organization					
Add rows if required.					
Year	S. No.	National/ International	Name of recognition	Awarding authority	Value of award (if monetary)
2017-18					
2017-18					
2018-19					
2018-19					
2019-20					
2019-20					

Template 13: Reports leading to designs and products

This template is specific to the Services R&D labs and is intended to validate data on reports generated by labs that led to designs and products for each reporting year. The template requires details such as the title of report, subject area, details of the design/product, the body that commissioned the report and the date of submission of the report.

Reports leading to designs and products List of reports leading to designs and products						
Add rows if required. Please refer to the Appendix for a non-exhaustive list of subject area						
Year	S. No.	Title of the report	Subject Area*	Details of design/product	Commissioned by	Date of submission
2017-18						
2017-18						
2018-19						
2018-19						
2019-20						
2019-20						

Template 14: IPRs Filed

This template is meant to collect information to validate the number of IPR filed by labs for each reporting year. The IPR categories include: Patents, Trademarks, Designs, Copyrights, GI of goods, Plant varieties, Semiconductor integrated circuit and layout-design. Requirements of this template include the title of the IPR, IPR number and whether it was filed domestically or internationally.

IPRs Filed						
Add rows if required.						
Year	S. No.	IPR category (enter from the list below)	Title of Invention	IPR No.	Whether filed Domestic/ International	If International, enter country
2017-18						
2017-18						
2018-19						
2018-19						
2019-20						
2019-20						

IPR category includes:
Patents
Trademarks
Designs
Copyright
GI of goods
Plant varieties
Semi conductor integrated circuit layout-design

Template 16: Technologies Transferred

This template is intended to validate the data reported for the number of IPR licensed out and the technologies transferred. The labs will be required to report the name of technology, the type of transfer (for eg. direct sale, licensing, etc.), the number of times the technology was transferred. The template also captures whether the transfer was domestic or international and the type of institution to which the technology was transferred.

List of technologies transferred by the lab

Add rows if required

Year	S. No.	Type of transfer (enter from the list mentioned below)	IPR category for licensing (enter from the list mentioned below)	Name of Technology	IPR No.	Number of times transferred	Transferred to: Academic Institution/ Research Labs/ Industry	Transferred: Domestic/ Abroad	Amount Received (Rs. in total)
2017-18									
2018-19									
2019-20									

Types of transfer include:
Direct Sale
Licensing
Spin outs
Free of cost
Others

IPR category includes:
Patents
Trademarks
Designs
Copyright
GI of goods
Plant varieties
Semi conductor integrated circuit layout-design

Template 17: New services and products

This template is meant to validate the data reported for new services and products introduced by labs for each reporting year. It requests information such as the name of the service or product and whether it was introduced in the market/being used by Industry/other laboratories or own laboratory.

NEW SERVICES AND PRODUCTS					
Add rows if required.					
Year	S. No.	Service/ Product	Name of Service/ Product	Introduced in the market/ being used by Industry/ Other laboratories/ Own laboratory	Commercial value (if any)
2017-18					
2017-18					
2018-19					
2018-19					
2019-20					
2019-20					

Template 18: Outside researchers

This template will help validate the number of outside researchers supported by the organisation. Outside researchers supported by the organisation are those that have undertaken research at the organisation and include college teachers, university faculty, doctoral students, scientists from other institutions and industry. The template requests for the name of the researcher, the designation, organisation and the duration of the research.

OUTSIDE RESEARCHERS						
Add rows if required. List of outside researchers supported by your organisation who undertook research at your organisation						
Outside researchers include college teachers, university faculty, doctoral students, scientists from other institutions and industry.						
Year	S. No.	Name of researcher	Designation	Organization	Country	Duration (dd/mm/yyyy - (dd/mm/yyyy)
2017-18						
2017-18						
2018-19						
2018-19						
2019-20						
2019-20						

Appendix A.5
LIST OF PARTICIPATING LABS

S. No.	Department/Ministry	Lab Name
Major Scientific Agencies		
1	Council of Scientific & Industrial Research	CSIR-Advanced Materials and Processes Research Institute
2	Council of Scientific & Industrial Research	CSIR-Central Building Research Institute
3	Council of Scientific & Industrial Research	CSIR-Central Drug Research Institute
4	Council of Scientific & Industrial Research	CSIR-Central Electro-Chemical Research Institute
5	Council of Scientific & Industrial Research	CSIR-Central Electronics Engineering Research Insti-tute
6	Council of Scientific & Industrial Research	CSIR-Central Food Technological Research Insti-tute
7	Council of Scientific & Industrial Research	CSIR-Central Glass and Ceramic Research Institute
8	Council of Scientific & Industrial Research	CSIR-Central Institute of Medicinal and Aromatic Plants
9	Council of Scientific & Industrial Research	CSIR-Central Institute of Mining and Fuel Re-search
10	Council of Scientific & Industrial Research	CSIR-Central Leather Research Institute
11	Council of Scientific & Industrial Research	CSIR-Central Mechanical Engineering Research Institute
12	Council of Scientific & Industrial Research	CSIR-Central Road Research Institute
13	Council of Scientific & Industrial Research	CSIR-Central Salt And Marine Chemicals Research Institute
14	Council of Scientific & Industrial Research	CSIR-Central Scientific Instruments Organisation
15	Council of Scientific & Industrial Research	CSIR-Centre for Cellular and Molecular Biology
16	Council of Scientific & Industrial Research	CSIR-Indian Institute of Chemical Technology
17	Council of Scientific & Industrial Research	CSIR-Indian Institute of Integrative Medicine
18	Council of Scientific & Industrial Research	CSIR-Indian Institute of Petroleum

S. No.	Department/Ministry	Lab Name
Major Scientific Agencies		
19	Council of Scientific & Industrial Research	CSIR-Institute of Genomics and Integrative Biolo-gy
20	Council of Scientific & Industrial Research	CSIR-Institute of Himalayan Bioresource Technol-ogy
21	Council of Scientific & Industrial Research	CSIR-Institute of Microbial Technology
22	Council of Scientific & Industrial Research	CSIR-Institute of Minerals and Materials Technol-ogy
23	Council of Scientific & Industrial Research	CSIR-National Botanical Research Institute
24	Council of Scientific & Industrial Research	CSIR-National Chemical Laboratory
25	Council of Scientific & Industrial Research	CSIR-National Environmental Engineering Re-search Institute
26	Council of Scientific & Industrial Research	CSIR-National Geophysical Research Institute
27	Council of Scientific & Industrial Research	CSIR-National Institute for Interdisciplinary Sci-ence and Technology
28	Council of Scientific & Industrial Research	CSIR-National Institute of Oceanography
29	Council of Scientific & Industrial Research	CSIR-National Institute of Science Communication and Information Resources
30	Council of Scientific & Industrial Research	CSIR-National Institute of Science, Technology And Development Studies
31	Council of Scientific & Industrial Research	CSIR-National Metallurgical Laboratory
32	Council of Scientific & Industrial Research	CSIR-National Physical Laboratory
33	Council of Scientific & Industrial Research	CSIR-North East Institute of Science and Technol-ogy
34	Council of Scientific & Industrial Research	CSIR-Structural Engineering Research Centre
35	Department of Biotechnology	Centre for DNA Fingerprinting and Diagnostics
36	Department of Biotechnology	Institute for Stem Cell Science and Regenerative Medicine
37	Department of Biotechnology	Institute of Bioresources and Sustainable Develop-ment
38	Department of Biotechnology	Institute of Life Sciences
39	Department of Biotechnology	National Agri-Food Biotechnology Institute

S. No.	Department/Ministry	Lab Name
Major Scientific Agencies		
40	Department of Biotechnology	National Brain Research Centre
41	Department of Biotechnology	National Centre for Cell Science
42	Department of Biotechnology	National Institute of Animal Biotechnology
43	Department of Biotechnology	National Institute of Biomedical Genomics
44	Department of Biotechnology	National Institute of Plant Genome Research
45	Department of Biotechnology	Rajiv Gandhi Centre for Biotechnology
46	Department of Biotechnology	Regional Centre for Biotechnology
47	Department of Biotechnology	Translational Health Science and Technology Insti-tute
48	Department of Science and Technology	Agharkar Research Institute
49	Department of Science and Technology	Aryabhatta Research Institute of Observational Sciences
50	Department of Science and Technology	Birbal Sahni Institute of Palaeosciences
51	Department of Science and Technology	Bose Institute
52	Department of Science and Technology	Centre for Nano and Soft Matter Sciences
53	Department of Science and Technology	Indian Association for the Cultivation Of Science
54	Department of Science and Technology	Indian Institute of Astrophysics
55	Department of Science and Technology	Indian Institute of Geomagnetism
56	Department of Science and Technology	Institute of Nano Science and Technology
57	Department of Science and Technology	International Advanced Research Centre for Powder Metallurgy and New Materials
58	Department of Science and Technology	Raman Research Institute
59	Department of Science and Technology	Sree Chitra Tirunal Institute for Medical Sciences and Technology
60	Department of Science and Technology	Wadia institute of Himalayan geology
61	Indian Council of Agricultural Research	ICAR-Central Agroforestry Research Institute

S. No.	Department/Ministry	Lab Name
Major Scientific Agencies		
62	Indian Council of Agricultural Research	ICAR-Central Arid Zone Research Institute
63	Indian Council of Agricultural Research	ICAR-Central Avian Research Institute
64	Indian Council of Agricultural Research	ICAR-Central Coastal Agricultural Research Insti-tute
65	Indian Council of Agricultural Research	ICAR-Central Inland Fisheries Research Institute
66	Indian Council of Agricultural Research	ICAR-Central Institute for Arid Horticulture, Bikaner
67	Indian Council of Agricultural Research	ICAR-Central Institute for Research on Cattle
68	Indian Council of Agricultural Research	ICAR-Central Institute for Research on Cotton Technology
69	Indian Council of Agricultural Research	ICAR-Central Institute for Research on Goats
70	Indian Council of Agricultural Research	ICAR-Central Institute for Women in Agriculture
71	Indian Council of Agricultural Research	ICAR-Central Institute of Agricultural Engineering
72	Indian Council of Agricultural Research	ICAR-Central Institute of Brackishwater Aquacul-ture
73	Indian Council of Agricultural Research	ICAR-Central Institute of Fisheries Technology
74	Indian Council of Agricultural Research	ICAR-Central Institute of Freshwater Aquaculture
75	Indian Council of Agricultural Research	ICAR-Central Institute of Post Harvest Engineering and Technology
76	Indian Council of Agricultural Research	ICAR-Central island Agricultural Research Institute
77	Indian Council of Agricultural Research	ICAR-Central Marine Fisheries Research Institute
78	Indian Council of Agricultural Research	ICAR-Central Plantation Crops Research Institute
79	Indian Council of Agricultural Research	ICAR-Central Potato Research Institute
80	Indian Council of Agricultural Research	ICAR-Central Research Institute for Jute and Al-lied Fibres
81	Indian Council of Agricultural Research	ICAR-Central Sheep and Wool Research Institute
82	Indian Council of Agricultural Research	ICAR-Central Tobacco Research Institute
83	Indian Council of Agricultural Research	ICAR-Central Tuber Crops Research Institute

S. No.	Department/Ministry	Lab Name
Major Scientific Agencies		
84	Indian Council of Agricultural Research	ICAR-Directorate of Cashew Research
85	Indian Council of Agricultural Research	ICAR-Directorate of Coldwater Fisheries Research
86	Indian Council of Agricultural Research	ICAR-Directorate of Floricultural Research
87	Indian Council of Agricultural Research	ICAR-Directorate of Groundnut Research
88	Indian Council of Agricultural Research	ICAR-Directorate of Poultry Reserach
89	Indian Council of Agricultural Research	ICAR-Directorate of Rapeseed Mustard Research
90	Indian Council of Agricultural Research	ICAR-Indian Agricultural Research Institute
91	Indian Council of Agricultural Research	ICAR-Indian Agricultural Statistics Research Insti-tute
92	Indian Council of Agricultural Research	ICAR-Indian Institute of Horticultural Research
93	Indian Council of Agricultural Research	ICAR-Indian Institute of Maize Research
94	Indian Council of Agricultural Research	ICAR-Indian Institute of Millets Research
95	Indian Council of Agricultural Research	ICAR-Indian Institute of Oil Palm Research
96	Indian Council of Agricultural Research	ICAR-Indian Institute of Oilseeds Research
97	Indian Council of Agricultural Research	ICAR-Indian Institute of Pulses Research
98	Indian Council of Agricultural Research	ICAR-Indian Institute of Rice Research
99	Indian Council of Agricultural Research	ICAR-Indian Institute of Seed Science
100	Indian Council of Agricultural Research	ICAR-Indian Institute of Soil and Water Conserva-tion
101	Indian Council of Agricultural Research	ICAR-Indian Institute of Soil Science
102	Indian Council of Agricultural Research	ICAR-Indian Institute of Soybean Research
103	Indian Council of Agricultural Research	ICAR-Indian Institute of Spices Research
104	Indian Council of Agricultural Research	ICAR-Indian Institute of Water Management
105	Indian Council of Agricultural Research	ICAR-Indian Veterinary Research Institute

S. No.	Department/Ministry	Lab Name
Major Scientific Agencies		
106	Indian Council of Agricultural Research	ICAR-National Academy of Agricultural Research Management
107	Indian Council of Agricultural Research	ICAR-National Bureau of Agricultural Insect Re-source
108	Indian Council of Agricultural Research	ICAR-National Bureau of Agriculturally Important Microorganisms
109	Indian Council of Agricultural Research	ICAR-National Bureau of Animal Genetic Re-sources
110	Indian Council of Agricultural Research	ICAR-National Bureau of Fish Genetic Resources
111	Indian Council of Agricultural Research	ICAR-National Bureau of Plant Genetic Resources
112	Indian Council of Agricultural Research	ICAR-National Bureau of Soil Survey and Land Use Planning
113	Indian Council of Agricultural Research	ICAR-National Institute for Plant Biotechnology
114	Indian Council of Agricultural Research	ICAR-National Institute of Abiotic Stress Man-agement
115	Indian Council of Agricultural Research	ICAR-National Institute of Agricultural Economics and Policy Research
116	Indian Council of Agricultural Research	ICAR-National Institute of Animal Nutrition and Physiology
117	Indian Council of Agricultural Research	ICAR-National Institute of High Security Animal Diseases
118	Indian Council of Agricultural Research	ICAR-National Institute of Natural Fibre Engineer-ing and Technology
119	Indian Council of Agricultural Research	ICAR-National Institute of Veterinary Epidemiolo-gy and Disease Informatics
120	Indian Council of Agricultural Research	ICAR-National Research Center on Camel
121	Indian Council of Agricultural Research	ICAR-National Research Centre for Banana
122	Indian Council of Agricultural Research	ICAR-National Research Centre for Grapes
123	Indian Council of Agricultural Research	ICAR-National Research Centre for Integrated Pest Management
124	Indian Council of Agricultural Research	ICAR-National Research Centre for Orchids
125	Indian Council of Agricultural Research	ICAR-National Research Centre on Equine
126	Indian Council of Agricultural Research	ICAR-National Research Centre on Meat

S. No.	Department/Ministry	Lab Name
Major Scientific Agencies		
127	Indian Council of Agricultural Research	ICAR-National Research Centre on Mithun
128	Indian Council of Agricultural Research	ICAR-National Research Centre on Pig
129	Indian Council of Agricultural Research	ICAR-National Research Centre on Pomegranate
130	Indian Council of Agricultural Research	ICAR-National Research Centre on Seed Spices
131	Indian Council of Agricultural Research	ICAR-National Research Centre on Yak
132	Indian Council of Agricultural Research	ICAR-Research Complex for Eastern Region
133	Indian Council of Agricultural Research	ICAR-Sugarcane Breeding Institute
134	Indian Council of Medical Research	ICMR-National Centre for Disease Informatics and Research
135	Indian Council of Medical Research	ICMR-National Institute for Research in Environmen-tal Health
136	Indian Council of Medical Research	ICMR-National Institute For Research In Reproduc-tive Health
137	Indian Council of Medical Research	ICMR-National Institute for Research in Tubercu-losis
138	Indian Council of Medical Research	ICMR-National Institute of Cancer Prevention and Research
139	Indian Council of Medical Research	ICMR-National Institute of Cholera and Enteric Dis-eases
140	Indian Council of Medical Research	ICMR-National Institute of Immunohaematology
141	Indian Council of Medical Research	ICMR-National Institute of Nutrition
142	Indian Council of Medical Research	ICMR-National Institute of Occupational Health
143	Indian Council of Medical Research	ICMR-National Institute of Pathology
144	Indian Council of Medical Research	ICMR-National Institute of Research in Tribal Health
145	Indian Council of Medical Research	ICMR-National Institute of Traditional Medicine
146	Indian Council of Medical Research	ICMR-National Institute of Virology
147	Indian Council of Medical Research	ICMR-Rajendra Memorial Research Institute of Med-ical Sciences
148	Indian Council of Medical Research	ICMR-Regional Medical Research Centre, Gorakhpur

S. No.	Department/Ministry	Lab Name
Major Scientific Agencies		
149	Indian Council of Medical Research	ICMR-Regional Medical Research Centre, NE Region
150	Indian Council of Medical Research	ICMR-Vector Control Research Centre
151	Ministry of Earth Sciences	Indian Institute of Tropical Meteorology
152	Ministry of Earth Sciences	Indian National Centre for Ocean Information Ser-vices
153	Ministry of Earth Sciences	MoES - National Centre for Earth Science Studies
154	Ministry of Earth Sciences	National Centre for Polar and Ocean Research
155	Ministry of Earth Sciences	National Institute of Ocean Technology
156	Ministry of Electronics and Information Tech-nology	Centre for Development of Advanced Computing
157	Ministry of Electronics and Information Tech-nology	Centre for Materials for Electronics Technology
158	Ministry of Electronics and Information Tech-nology	Education & Research in Computer Networking
159	Ministry of Electronics and Information Tech-nology	Society for Applied Microwave Electronics Engi-neering & Research
160	Ministry of Environment, Forest and Climate Change	Botanical Survey of India
161	Ministry of Environment, Forest and Climate Change	Centre for Environmental Management of Degraded Ecosystems (CEMDE)
162	Ministry of Environment, Forest and Climate Change	G.B. Pant National Institute of Himalayan Envi-ronment
163	Ministry of Environment, Forest and Climate Change	Indian Council of Forestry Research & Education
164	Ministry of Environment, Forest and Climate Change	Indian Plywood Industries Research and Training Institute
	Central Ministries/Departments other than Major Scientific Agencies	
165	Department for Promotion of Industry and Internal Trade	Central Manufacturing Technology Institute
166	Department for Promotion of Industry and Internal Trade	Indian Rubber Manufacturers Research Associa-tion
167	Department for Promotion of Industry and Internal Trade	National Council For Cement & Building Materials
168	Department of Pharmaceuticals	National Institute of Pharmaceutical Education and Research
169	Ministry of Agriculture	Soil And Land Use Survey Of India

S. No.	Department/Ministry	Lab Name
Major Scientific Agencies		
170	Ministry of Ayush	Central Council For Research in Ayurvedic Sciences
171	Ministry of Ayush	Central Council for Research in Homoeopathy
172	Ministry of Ayush	Central Council for Research in Siddha
173	Ministry of Ayush	Central Council for Research in Unani Medicine
174	Ministry of Ayush	National Institute of Ayurveda
175	Ministry of Ayush	Pharmacopoeia Commission for Indian Medicine and Homoeopathy
176	Ministry of Chemicals and Fertilizers	Central Institute of Petrochemicals Engineering & Technology: Laboratory for Advanced Research in Petrochemicals Materials
177	Ministry of Food Processing Industries	National Institute of Food Technology Entrepreneur-ship and Management
178	Ministry of heavy Industries	The Automotive Research Association of India
179	Ministry of Housing and Urban Affairs	National Institute of Urban Affairs
180	Ministry of Micro, Small & Medium Enterprises	Central Coir Research Institute, Coir Board
181	Ministry of Mines	Jawaharlal Nehru Aluminium Research Development And Design Centre
182	Ministry of Mines	National Institute of Rock Mechanics
183	Ministry of Power	Central Power Research Institute
184	Ministry of Road Transport	Central Institute of Road Transport, Pune
185	Ministry of Rural Development	National Institute of Rural Development & Panchayati Raj
186	Ministry of Textiles	Central Muga Eri Research and Training Institute
187	Ministry of Textiles	Central Sericultural Germplasm Resources Centre
188	Ministry of Textiles	Central Sericultural Research & Training Institute
189	Ministry of Textiles	CENTRAL SILK TECHNOLOGICAL RESEARCH INSTI-TUTE
190	Ministry of Textiles	Central Tasar Research & Training Institute
191	Ministry of Textiles	Seribiotech Research Laboratory
192	Ministry of Textiles	Wool Research Association
193	-	Indian Institute of Technology Roorkee

Appendix A.6

METHODOLOGY FOR DERIVING SUB-PILLAR AND PILLAR SCORES

The Chapters on Basic, Applied and Services R&D labs have captured the average performance of the respective labs across 11 sub-pillars represented in the form of a spider chart, while the average performance across the pillars has been represented in a bar chart in each of the chapters. The average scores were determined by computing scores for individual labs. The scoring methodology is as follows:

1. The framework had 62 questions consisting of numeric questions, percentage questions, qualitative questions and a question with a likert scale.
2. Scaling of responses - Responses to each numeric question were scaled using relevant budget or scientific staff to ensure comparability between lab responses.
3. Responses to percentage questions were divided by 100.
4. For qualitative questions, the responses were either given a value 0 or 1 depending on the response. For example in Q3 which relates to beneficiaries of a lab's programme, all labs were assigned a value 1.
5. Responses to the question with a likert scale were assigned 0, 0.25, 0.5, 0.75 or 1 depending on the response.
6. Normalisation - We used the Min-Max method of normalization to normalise the numeric data on a scale of 0 -1. Normalization was not done for responses to the binary questions and the qualitative questions.
7. Multiplication by Weights - The computed values were then multiplied by weights assigned to each question, indicator, sub-pillar and finally pillar as assigned in the framework.

Treatment of data that could not be validated

The instrument and the data collection through the web platform was designed in such a way to ensure there were no missing values. The purpose of the templates had been to validate the responses provided by the labs. However, in the process of data validation, responses were flagged and labs were given time to come back with validated responses. In some cases where we did not receive any response, we have used the unvalidated response for the purpose of analysis. An unvalidated response from a lab is reflected in the individual lab sheet.

Treatment of Negative Data

For the question that required labs to report an increase or decrease in their scientific or contractual research staff, several labs indicated a decrease, translating to negative values for those indicators. For these responses, the negative values were replaced with 0.

Treatment for outliers

Outliers were trimmed at the 95th percentile value. The 95th percentile formula was applied to responses to all the numeric and percentage questions.

Appendix A.7
FEEDBACK RECEIVED FROM THE DEPARTMENTS/ MINISTRIES / LABS ON THE DRAFT REPORT AND THE RESPECTIVE ACTIONS / RESPONSES

Table 1: CSIR Labs with comments

S. No.	Comments	Organizations/ Departments/ Ministry	Organizations/Departments/ Ministry
1	In the Basic R&D proforma, for the Q 1. TRL (0 - 4), the number of ongoing projects during the particular financial year needs to be included. In the Applied R&D proforma, for the Q1. TRL 5-6, the molecules being pursued by the institute's Translational Research Group needs to be included In the Service R&D proforma, for the Q1. TRL above 6, the molecules for which IND has been filed / ready for commercialization needs to be included. In the report, some of the outputs are quantified against the total number of Scientific Staff (Scientists, Project staff, JRF, SRF, other fellows). In many of these activities, students have no participation. If performance is quantified against total scientific staff, then the outputs appear miniscule. It should be quantified against total number of Scientists. Some of the accomplishments, like SS Bhatnagar, Padma, Infosys awards & Fellowships of Academies are the outcome of research of past several years. Quantifying the performance against current strength of scientists and students is not justifiable. Similarly, budget is allocated for specific purposes. It cannot be utilized for any other purpose. Needless to say, if specific budget is not allocated, then the outputs against that activity shall be 'nil'. Our proposal for setting up of Incubator was not approved. Assessing the outputs of Incubator is not justifiable. The data of the CSIR-CDRI pertaining to the Number of Technologies at TRL levels 0 - 4; above 5 and above 6 under Basic, Applied, and Service R&D proforma needs to be updated. In the attached excel sheet, you will find the updated values of number of technologies at TRL 0-4; above 5 and above 6 (Yellow highlight). It will be great if you could arrange for inclusion of above corrections in the final report.	CDRI, Lucknow	The number of projects have already been included in Q2. For the number of technologies, the number of technologies targeting SDGs and as validated based on supporting documents provided by the lab had been increased for Basic Labs from 1 (as submitted by lab) to 3 for 2019-20. This increased number was also communicated to you separately on 8 February 2021. With respect to use of scientists and budget, the same scaling factors have been used for all labs and hence will impact all labs in a similar way. Scaling factors have also been discussed with working group. Some of the indicators like incubation activities have been included to provide forward guidance for labs to work towards in the future. Labs that currently do not engage in these activities would have a 0 entry. To compute relative performance of labs across indicators, one would need a quantitiative value and hence Nil or N/A would translate into for purpose of computation. We shall mention in the methodology that scientific staff include contractual staff. All labs are being impacted in a similar way. Your inputs could be considered for the next round of this study.

S. No.	Comments	Organizations/ Departments/ Ministry	Organizations/Departments/ Ministry
	Our another observation is about flaw in the quantitative evaluation of research outputs, as briefed below: The report indicates quantitative evaluation of outputs against each 100 scientific staff in the Public funded Institutes. For example, the report states that for the year 2019- 20, Number of PhDs, Masters and Graduate degrees awarded by the CSIR-CDRI (per 100 scientific staff) is 14.32. Actual fact is that the CSIR-CDRI was having about 85 R&D scientists in 19-20 and produced 69 PhDs. The quantitative assessment would have been 81 PhDs per 100 Scientific staff. However, the report states that 100 scientific staff of CSIR-CDRI have produced 14.32 PhDs only. It is because, in the calculation, they have considered Scientists, Project staff, JRF, SRF and other Research Fellows together as Scientific Staff and compared the number of PhDs produced. Needless to say, the Project staff, JRF, SRF or other Fellows cannot produce the PhDs. We strongly suggest that the Quantification of data should be against number of scientists only, not against staff inclusive of students. Otherwise, if the report goes in public domain, the outputs of Scientific departments will appear miniscule despite of significant outputs per 100 scientists.	CDRI, Lucknow	
2	Inputs of CSIR-AMPRI has not been reflected fully . The lab would be advised to share the relevant documents with representative of CII and PSA.	CSIR-AMPRI, Bhopal	Inputs from CSIR-AMPRI have not been received.
3	In Vol 2, line 4 (below the title line), location of CFTRI is given as Mumbai, Maharashtra. This has to be corrected as Mysuru, Karnataka. (Head Quarter is at Mysuru Karnataka with resource centres in Hyderabad, Lucknow and Mumbai).	CSIR-CFTRI, Mysore	Noted. The location for CFTRI has been changed to Mysuru.
4	Draft reports received from office of PSA on Evaluation of the Innovation Excellence Indicators of Centrally Funded Research & Development Organizations project". In this connection, with respect to CSIR-CLRI lab innovation excellence indicators, CLRI has points for clarification.	CSIR-CLRI, Chennai	The error in the scaling factor resulting in error in the data reported has been noted and corrected. When the original validation was done, the collaborations were not mentioned on the template. Lab was then requested to resubmit the template and provide clarifications. Upon validating the resubmitted template, we could only extract collaborations with academic institutions and not industry collaborations

S. No.	Comments	Organizations/ Departments/ Ministry	Organizations/Departments/ Ministry
5	CSIR-CMERI has points for clarification	CSIR-CMERI, West Bengal	Lab had provided same entries for consultancy amount as well as extra-mural funding amount for both government and non-government sources. The amount was Rs 11.1 Cr for government sources and Rs 1.1 Cr for non-government sources for consultancy and extra-mural funding respectively (for 2017-18). The lab has given us to understand that although the amounts are exactly the same, they earnings from consultancy was same as extra-mural funding received and hence should be considered under both categories. This has been noted and action taken accordingly. For publications related questions, all data has been verified from the Web of Science and Scopus for all labs to maintain consistency across labs. The data requested for publications in 2017, 2018, and 2019, and number of citations received in 2017, 2018 and 2019 for papers published in preceeding three years. Based on screenshot provided by the lab, the data for citations received in 2017 for papers published in 2014, 2015 and 2016 have been considered. Similarly the data from screen shot with respect to citations received in 2018 and 2019 have also been considered. The lab's methodology for the calculation of citations was incorrect and had been corrected during validation. Hence, the data that has been provided in this communication cannot be incorporated. The error in the scaling factor resulting in error in the data reported has been noted and corrected.
6	Attached herewith the list of corrections to be incorporated (along with necessary background data) in the draft input data pertaining to CSIR-CSMCRI for further needful. The yellow highlighted portions in the MS Word document are the correct ones.	CSIR-CSMCRI, Gujarat	The error in the scaling factor resulting in error in the data reported has been noted and corrected.

S. No.	Comments	Organizations/ Departments/ Ministry	Organizations/Departments/ Ministry
	For the ease of identifying where the corrections are made, the extracted page of CSIR-CSMCRI is attached where the changes made at relevant information data/queries are highlighted .		Regarding projects, data could only be validated for the number provided in the clarifications sheet. Lab was provided with the following explanation on 17 February 2021: Some projects which were not ongoing in the relevant financial year have been removed. Data for collaborations do not match with the data in the template. Based on the submitted template, the total number of publications was 203, 210 and 186 for the three respective years. Upon verification from Web of Science it was seen that the total number of publications was 207, 224 and 196, which is higher than the lab's original response. The number of national collaborations was validated from the template submitted by the lab and these were 61, 70 and 29 for the three years and was intimidated to the lab on 17 February 2021. The share of national collaborations was computed using validated data and adjusted using the higher number of publications.
7	CSIR-IHBT has inputs w.r.t. draft report on CII document (Ref. Page 26, Vol II) for kind perusal and necessary action.	CSIR-IHBT, Palampur	It was communicated to all participants that the data collection exercise for the national survey would begin on 17th August 2020 and will conclude on 30th September 2020. Adequate handholding towards this was also done. The data was also shared with labs for any revision/ comments before analysis. The data submitted by the respective labs via the survey portal is now considered to be final and any updated data cannot be considered for this round. For the datapoint on total staff, the number 342 was used for 2019-20 and agreed with the response provided by the lab to Q41 that requests for research staff as share of total staff. We shall adjust the total number of staff now provided in the next round.

S. No.	Comments	Organizations/ Departments/ Ministry	Organizations/Departments/ Ministry
8	The figures reflected in the final report include both project staff such as JRFs and SRFs and permanent staff. In my opinion, there should have been two separate heads under the Staff in the final report instead of one combined head as 'Total Staff at the Lab'. This is probably the case with all the CSIR labs. Please see if you can address this issue.	CSIR-NBRI, Lucknow	With respect to use of scientists and budget, the same scaling factors have been used for all labs and hence will impact all labs in a similar way. Scaling factors have also been discussed with working group. Some of the indicators like incubation activities have been included to provide forward guidance for labs to work towards in the future. Labs that currently do not engage in these activities would have a 0 entry. We shall mention in the methodology that scientific staff include contractual staff. All labs are being impacted in a similar way. Your inputs could be considered for the next round of this study.
9	The proposed Innovation Excellence Framework is a refreshing new approach to documenting the inputs, outputs and outcomes related to R&D and innovation. The indicators used are balanced across various objectives identified without over-emphasis of one metric or the other. The choice of metrics or indicators is similar to the "Reinventing CSIR" report by the Kelkar Committee dating back to 2003. CSIR HQ may wish to act of recommendations of the Kelkar Committee. — This data will be useful for labs to benchmark themselves and also work towards improving on certain metrics where the lab may not have fared well. There do appear to be some errors which we will look into. For example, the "Percentage of young scientists and researchers to the total scientific and research staff" has an unexplainable drop in 2019-20. — We have noted areas requiring improvement and will be working on those for next year's survey.	CSIR-NCL, Pune	General comments have been noted. The point about contributions to policies coming under output rather than outcome can be considered. The templates had requested for patents filed in India and abroad and patents granted to a lab both in India and abroad. However for the purpose of this exercise, the total patents filed and granted were considered. The numbers had been provided by CSIR HQ for total patents filed and granted for each CSIR lab.

S. No.	Comments	Organizations/ Departments/ Ministry	Organizations/Departments/ Ministry
10	CSIR-NGRI data reflected on the draft report is correct While filling up the data the only option available in the cover page to reflect our main areas of Research is Aerospace; Electronics and Instrumentation; Metals and Materials; Ecology, Environment, Earth & Ocean Sciences and Water; Energy devices. However, the R&D areas mentioned in the column related to - Aerospace; Electronics and Instrumentation; Metals and Materials; Energy devices is not our domain expertise. If it is possible, we request you to kindly consider deleting these from the areas of research mentioned against CSIR-NGRI.	CSIR-NGRI, Hyderabad	Noted. The mandate for NGRI has been changed as requested.
11	For CSIR-NIIST, we would like to inform that the Scientific Strength shown includes the combined figure of Scientists, Contract Project Staff, Research Fellows and Technical Staff. Hence the total number engaged in R&D is 371, 326 and 440 resp. However, the projects technologies patents, awards etc are the outcome of Scientists and Technical Staff only. The other part of the manpower is involved in the execution of project only. Hence is it possible to indicate only the total scientists and technical staff as those who are engaged in R&D, then it will change to 104, 114, and 117 for the respective years. The amendment of this data as per the above will reflect accurately the indicators shown per 100 scientific staff. If the above is corrected, all other indicators will also change. The above feedback is attached for CSIR-NIIST page	CSIR-NIIST, Kerala	It was communicated to all participants that the data collection exercise for the national survey would begin on 17th August 2020 and will conclude on 30th September 2020. Adequate handholding towards this was also done. The data was also shared with labs for any revision/ comments before analysis. The data submitted by the respective labs via the survey portal is now considered to be final and any updated data cannot be considered for this round. With respect to use of scientists and budget, the same scaling factors have been used for all labs and hence will impact all labs in a similar way. Scaling factors have also been discussed with working group. Some of the indicators like incubation activities have been included to provide forward guidance for labs to work towards in the future. Labs that currently do not engage in these activities would have a 0 entry. We shall mention in the methodology that scientific staff include contractual staff. All labs are being impacted in a similar way. Your inputs could be considered for the next round of this study.

S. No.	Comments	Organizations/ Departments/ Ministry	Organizations/Departments/ Ministry
12	There are errors in the data used for the report pertaining to CSIR-NML. Number of national collaborative projects executed with academic/ research organisation (per 100 scientific staff) –Ref Q35/Applied R&D. Number of scientists attached to industry/ academic organisation under an exchange program organisation (per 100 scientific staff) – Ref Q37/Applied R&D. The following data may be revised in the draft report prepared by PSA on Evaluation of the Innovation Excellence Indicators of Centrally Funded Research & Development Organizations project Total external Research and Development Funding amount received (in Rs. Crores) from non-Government sources (per Rs. 10 Crs spend – Q30/ Applied R&D 1. Strengthening engagement with the national STI ecosystem: The following additional strategies can be considered a. Creation of thematic catapults in collaboration with academia and industries b. Dedicated MSME outreach centres 2. Strengthening organizational capabilities The following additional strategies can be considered a. Put in place processes to expedite recruitments including rolling advertisements b. Creation of "national" pilot plants in chosen areas c. Tinkering Labs for internals and externals 3. Improving contribution towards societal benefits The following additional strategies can be considered a. Dedicated attention to artisanal clusters	CSIR-NML, Jharkhand	The error in the data on external research funding has been noted and corrected. For the data on national project collaborations with academia, the data could not be validated based on the original template that had been submitted by the lab. The decision to consider 0 as a response for this question was also communicated to the lab on 17 February 2021, and although the lab did come back with a revised response, again the data could not be validated as no new supporting template was submitted. Similarly, the scientists attached to an exchange programme was also considered 0 for 2019-20 as again the data could not be validated using the template the lab had submitted. Your suggestions on the recommendations have been noted.

S. No.	Comments	Organizations/ Departments/ Ministry	Organizations/Departments/ Ministry
	b. Skilling and self-employment initiatives by national labs 4. Increasing scientific and policy contribution to global development challenges The following additional strategies can be considered a. International consortia on Energy (including alternate fuels), Climate Change (including CCS), Nutrition, Health b. Cross lab collaborations on each SDGs c. Catalysing National and International industrial corpus for Research on SDGs.		
13	CSIR-IITR submitted more than 80% of the required information. But a little information such as the Citation report, etc. was not available with us. Now we have compiled all the necessary information. If possible, please provide us the opportunity to provide you the complete information so that analysis of our institution may be completed.	CSIR-Indian Institute of Toxicology Research	It was communicated to all participants that the data collection exercise for the national survey would begin on 17th August 2020 and will conclude on 30th September 2020. Adequate handholding towards this was also done. The data was also shared with labs for any revision/ comments before analysis. The data submitted by the respective labs via the survey portal is now considered to be final and any updated data cannot be considered for this round.
14	OK except the area of research which is to be rectified as Minerals, Metals, Materials, Environment, Water, Energy & Energy Devices and Strategic sector.	CSIR-IMMT, Bhubaneswar	Noted. The area of research for IMMT has been changed as requested.

Table 2: CSIR Labs with comments

S. No.	Department/Ministry	Organizations/ Departments/Ministry	Action Taken
1	CSIR-CBRI is fine with the document and has no revision or input	CSIR-CBRI, Roorkee	Noted
2	CSIR-CECRI is fine with the document and has no revision or input.	CSIR-CECRI, Tamil Nadu	Noted
3	CSIR-CGCRI is fine with the document	CSIR-CGCRI, Kolkata	Noted
4	CSIR-CRRI is fine with the document	CSIR-CRRI, Delhi	Noted

S. No.	Department/Ministry	Organizations/ Departments/Ministry	Action Taken
5	CSIR-IICT is fine with the document	CSIR-IICT, Hyderabad	Noted
6	CSIR-IIIM is fine with the document	CSIR-IIIM, Jammu	Noted
7	These two documents are extremely thorough and come across as largely unbiased and comprehensive. The parameters of evaluation are also quite reasonable.While I agree with nearly all the recommendations, they are - as to be expected - somewhat high level. I would add just one recommendation in terms of quality of project objectives for the Applied Research category; wherever these are activity oriented and do not have clearly quantified metrics predefined with milestones against global or national benchmarks, the chances of achieving commercial or societal outcome are very low. Adding these metrics at the proposal stage of a project will also direct more government funding (which constitutes the bulk of funds identified in the study) towards projects that are more likely to succeed. We may also offer CSIR's recently adopted Stage Gate concept as a way towards enhancing accountability of use of public money in research.	CSIR-IIP, Dehradun	Noted
8	CSIR-NEIST is fine with the report	CSIR-NEIST, Jorhat	Noted
9	CSIR-NIO is fine with the report	CSIR-NIO, Goa	Noted
10	CSIR-NPL is fine with the report	CSIR-NPL, Delhi	Noted
11	No info	CSIR-CCMB, Hyderabad	Noted
12	No info	CSIR-CEERI, Rajasthan	Noted
13	No info	CSIR-CIMAP, Lucknow	Noted
14	No info	CSIR-CIMFR, Dhanbad	Noted
15	No info	CSIR-CSIO, Chandigarh	Noted
16	No info	CSIR-IGIB, Delhi	Noted
17	Not covered in the study	CSIR-IICB, Kolkata	Noted
18	Not covered under study	CSIR-IITR, Lucknow	Noted
19	No info	CSIR-IMTECH, Chandigarh	Noted
20	Not covered under study	CSIR-NAL, Bangalore	Noted
21	No info	CSIR-NEERI, Nagpur	Noted
22	No input	CSIR-NISCAIR, Delhi	Noted
23	No input	CSIR-NISTADS, Delhi	Noted

S. No.	Department/Ministry	Organizations/ Departments/Ministry	Action Taken
24	No Input	CSIR-SERC, Chennai	Noted
25	Not under study	CSIR-4PI, Bangalore	Noted

Table 3: Comments from Department of Biotechnology (DBT)

S. No.	Comments	DBT's comments	Action Taken
1	This refers to the evaluation study on the innovation excellence indicators of centrally funded research and development organizations by the Office of PSA. The report has been prepared in two volumes based on the online survey. The Volume-1 of the report details the findings from the implementation of the framework established by government to assess the absolute and relative strengths and weaknesses of India's publicly funded R&D organizations. It also describes the objectives, scope and methodology of the study. In detail, the report shares the findings derived from the analysis of the data collected on 62 indicators from 193 labs of various departments/ ministries of GoI. This volume also lays down a roadmap for improving the output and outcome of the labs. Whereas, the Volumne-2 of the report presents the individual lab sheets of the 193 labs with their raw data that has been scaled by either the budget of the lab or the scientific staff at the lab. The sheet contains information on the lab's mandate, location, thrust areas of research and type of R&D performed. Office of PSA has put commendable efforts to compile the findings of the report. Although, both the volumes of the report are comprehensively represented, there is a further scope of improvement. Some of the comments that can be suggested are discussed in this report. As the, report grouped all the R&D organization into three categories, i.e. Basic, Applied and Services, it is not clearly mentioned and discussed in the report, about the data that has been analyzed for those laboratories that have identified themselves as Hybrid labs. Also, the methodology of data collection for such lab is not clear. Although, the questionnaire prepared for 3 types of labs is different however it is unclear about the hybrid labs that if they have filled up more than one the questionnaire. For instance, if the lab has considered itself as both applied and service labs, have they filled up the questionnaire for both the types of labs? Also, the report doesn't mention and discuss about the possible users and stakeholders of the reports. It is unclear to who the report will provide the benefit to.		Page No. 30 of the report states the following: The 193 labs had to self select their category of R&D performed i.e. Basic, Applied, Services, and were also eligible to respond to the questionnaires of more than one category of lab in case they were hybrid labs. Additionally, on the lab sheets in Volume 2 of the report, colour codes have been used to indicate which questionnaire was responded to by each of the labs. Hybrid labs would have two or more dots depending on the categories the labs chose to identify with In About the Report pg No. 5, the following has been mentioned:"For the organisations themselves, the report provides an opportunity to identify areas of untapped potential and interventions to improve the labs' performance in the areas mentioned above. Lastly, the report makes several actionable policy recommendations that may be considered to improve the outputs and outcomes from these R&D organisations."

S. No.	Comments	DBT's comments	Action Taken
	The report should talk about the stakeholders and the users of the findings of the report. In addition, the report has only considered three pillars for the overall evaluation that are, Socio-economic Impact, Science, Technology and Innovation Excellence, Organisational Effectiveness. However, the overall evaluation of these R&D labs would be incomplete without considering other human resource activities. Moreover, the gender lens has not been considered in the whole survey. Therefore, it can be suggested that, gender disaggregated and gender sensitive data can be taken into account for evaluating these excellence indicators for the labs as the first question of the questionnaire is asking about the number of Technologies targeted towards achieving Sustainable Development Goals (SDGs) and goal 5, talks about gender equality. Hence, the sex disaggregated data and information must be available for policy makers to be able to assess the situation and develop appropriate, evidence-based responses and policies.		The main stakeholders and audience to whom this report has been targeted are the labs themselves and policymakers. The suggestion of including sex disaggregated data and information is a good one and will be communicated for the next round. In this report, we have included available data on women researchers as reported (pg. 54) as well as a recommendation on the hiring of more women researchers for consideration by policymakers (pg. 148).

Table 4: Comments from ICAR – National Institute of Agricultural Economics and Policy Research (NIAP)

S. No.	Department/Ministry	Organizations/ Departments/ Ministry	Action Taken
1	The report is based on the systematic efforts to objectively evaluate the centrally funded R&D organizations with focus on basic, strategic and applied research. The report is developed primarily on three pillars, namely governance, innovation and productivity and socio-economic impacts. This is a unique effort to access a large number of institutions using a transparent and objective approach. The report has produced the framework which can be used by the policy makers for evaluation and funding these institutions.	ICAR – National Institute of Agricultural Economics and Policy Research (NIAP)	Noted. Your suggestion of improving definitions could be considered for the next round of this study.
2	The interesting finding is that there is a large variation in the innovations and publications across the institutions. In particular, there is less focus on protection and commercialization of intellectual property. A few institutions have attempted mostly for the domestic market. Resource generation by the simple institutions is mainly through consultancy and limited focus is on resource generation by commercialization of intellectual properties. There is a need for further improve the definitions of different indicator to reduce bias in the responding to the questionnaire. The report has rightly indicated the need for constitution of an expert group to further improve the evaluation framework and the experts should be drawn from difference disciplines.	ICAR – National Institute of Agricultural Economics and Policy Research (NIAP)	Noted. Your suggestion of improving definitions could be considered for the next round of this study.

Table 5: Comments from ICMR

S. No.	Department/Ministry	Organizations/ Departments/ Ministry	Action Taken
1	The framework on which the draft report has been prepared encompasses three main pillars - Socio-economic Impact, Science, Technology and Innovation (STI) Excellence, and Organizational Effectiveness. The outputs of the framework have been captured through 62 indicators that have been calculated using the raw data submitted by the labs scaled by either the budget of the lab or the scientific staff at the lab. After scrutinizing the lab sheet provided for ICMR-NICED, some discrepancies have been noticed as mentioned below: Some of the calculated numbers shown on the report seem to be not correct; for example: a. Number of publications in quality peer reviewed journals (per 100 scientific staff) – calculations are not matching for years 2018-19 and 2019-20, although the figure for2017-18 is correctly shown. b. Number of projects executed (per 100 scientific staff) – Same problem as mentioned above; calculations are not matching for years 2018-19 and 2019-20, although the figure for 2017-18 is correctly shown. d. Percentage of women scientists and researchers to the total scientific and research staff – the numbers shown in the report are not matching with the data provided by the institute e. There are variations in calculations for other indicators as well. Thus, it is requested that the figures provided in the report under various indicators may be re-checked before finalization. Thanks for providing the draft report to ICMR-NICED for veracity checking.	ICAR – National Institute of Agricultural Economics and Policy Research (NIAP)	a. Publications data validated using Web of Science and Scopus and the data for the lab shows improvement after validation process than what had been reported by the lab. b. Numbers for projects executed were based on what could be validated based on supporting templates provided by the lab. The data after validation is higher for 2018-19 while the number in 2019-20 is one less than what was reported by the lab. This was communicated to the lab on 14 January 2021. c. Noted and corrective action has been taken. d. Share of women researchers after validation is higher than what was reported by lab as the question asked for share of women researchers in total scientific staff and not total staff as reported by the lab. The higher values were also communicated to the lab on 14 January 2021.

S. No.	Department/Ministry	Organizations/ Departments/ Ministry	Action Taken
2	We have gone through the reports for NIV. We note that though we have filled the forms for the 3 areas : Basic, Applied &; Services, based on the color code for NIV (page no. 156, Volume 2) it appears that we have been considered as a "BASIC" R&D lab only. We had filled the forms not just for basic but also for applied and services also. I am attaching herewith the earlier submitted form. In my opinion, we have to be re-evaluated as a hybrid lab as we are very much into applied and services as well.	ICMR-National Institute of Virology	NIV's final submission was made only for the Basic category of labs. The portal shows that NIV had initiated data entry for Applied and Services Labs but did not make the final submission. On the portal the entries for Applied and Services are showing as draft. Data for analysis of lab entries only gets downloaded when final submission is made. The responses to Applied and Services may be considered in next round of the study as date for final submission was 10 November 2020. No entries after that have been considered unless lab provided clarifications during data validation process. Comments to labs on their data was sent on 14 January 2021.
3	The report was reviewed and the ranking of indicators for our Institution is very useful for planning of future areas of work . It may be useful to have an internal discussion to understand the broad areas of work that ICMR institutes need to focus on based on the methodology of the evaluation for basic, applied and services labs. This shall help in strategic planning and investment towards the broad goals in health	National Centre for Disease Informatics and Research	Noted.
4	Based on our submitted responses only the report for VCRC. However, the lab sheet has three coloured dots situated at the top right corner. The dark blue dot signifies that the lab identified itself with the Basic R&D labs category, the purple dot signifies the lab identified itself with the Applied R&D labs category, and the light blue dot signifies the lab identified itself with the Services R&D labs category (Basic, Applied, Services). For VCRC no coloured spot was seen on right top corner. We are supposed to have either blue dot indicating basic R &D or hybrid of Blue and purple indicating basic and applied R&D in Page no 160 of R&D report Volume 2.	ICMR - Vector Control Research Centre	Noted. Blue dot signifying lab is engaged in Basic R&D has been incorporated.

S. No.	Department/Ministry	Organizations/ Departments/ Ministry	Action Taken
5	Thanks for the opportunity for going through the documents, which are excellently prepared. I have no comments to offer.	NIRTH, Jabalpur	Noted.
6	This is regarding the query and inputs needed for the "Evaluation of innovation excellence indicators" report for RMRC Gkp (Page 158, Vol 2). The changes required were made in the portal and replies were addressed in the excel sheet attached herewith along with the screenshot of the web of science database. The changes required now are as follows 1. Number of publications in quality peer reviewed journals (per 100 scientific staff) in the year 2019-20, to be replaced with 145.45 from 163.64. 2. Number of citations received by papers published in the preceding three calendar years (per 100 scientific staff) in the year 2019-20, to be replaced with 145.45 from 163.64. 3. Screenshots attached herewith may be considered for data validation. Rest all are verified and correct as per the report. 4. Page No. 158: Area of Research cannot be Institute Name (It should be JE/AES, Communicable and Non-Communicable Diseases etc)	ICMR-RMRC, Gorakhpur	1. Higher number in lab sheet is based on validation of data from supporting documents provided by the lab. 2. Higher number in lab sheet is based on validation of data from supporting documents provided by the lab. 3. Noted. 4. Change has been incorporated.
7	ICMR-NIN Update 12-11-2021 final for submission	ICMR-NIN	Lab had been requested data on budget on 24th February, and multiple follow-ups were made on this till May 2021. The lab's budget had to be estimated for all three years. Lab had been requested for supporting documents with respect to number of project collaborations - however lab did not provide the information in template requested. Date for final submission was 10 November 2020.

S. No.	Department/Ministry	Organizations/ Departments/ Ministry	Action Taken
8	We appreciate the assessment report given to our institute by the committee. It gives us scope for improvement and better understanding of our advantages and limitations. We will work our very best to further improve and give our best performance in the scientific field. We would like to draw your kind attention that we have registered for both Basic and Applied R&D Sciences (Hybrid) on the CII portal. As instructed, we have filled the templates of both Basic and Applied R&D and also uploaded the same on the web portal. The nature of the R&D organization i.e. HYBRID - both basic and applied R&D is also mentioned in the submitted cover page (The supporting documents are attached for your kind reference). But, the performance assessment report only mentioned about the "Basic R&D". We request you to kindly address the issue and please let us know if you need any assistance from our side. Further, we have some doubts and queries related to Services R&D whether our institute comes under Services R&D category as per your definition. ICMR-RMRIMS is actively involved in surveillance, diagnosis of Kala-azar and provides healthcare to Kala-azar and PKDL patients. Diagnosis and treatment of TB, HIV-VL, and TB-VL coinfected patients are also carried out. The institute has Out Patient Department (OPD), Integrated Counselling and Testing Centre (ICTC), Anti-retroviral Therapy (ART) and Opioid Substitution Therapy (OST) facilities. The institute is actively involved in COVID-19 testing and many clinical trials are also undergoing. The institute is also involved in vector control and elimination programs. The institute also offers workshops in special techniques and training to various under and posts graduate students. Some of them are already mentioned in Basic and Applied Research R&D section uploaded earlier (Basic and Applied R&D Question No. 27 a & b and Q-39). Thus, we provide various facilities and services in healthcare system. I have enclosed cover page and mandate form uploaded on the web portal earlier as scan for your reference and necessary action please.	RMIMS	No entries after that have been considered unless lab provided clarifications requested for during data validation process alongwith necessary supporting documents. For this round of the exercise, labs original responses were considered and marked in purple where data could not be validated. RMIMS's final submission was made only for the Basic category of labs. The portal shows that RMIMS had initiated data entry for Applied Labs but did not make the final submission. On the portal the entries for Applied are showing as draft. Data for analysis of lab entries only gets downloaded when final submission is made. The responses to Applied may be considered in next round of the study as date for final submission was 10 November 2020. No entries after that have been considered unless lab provided clarifications during data validation process. Comments to labs on their data was sent on 14 January 2021.

Table 6: Comments from MeiTY

S. No.	Department/Ministry	Organizations/ Departments/ Ministry	Action Taken
1	Kindly refer to your letter D.O. No. Prn.SA/ SS/045/2021 dated 11th October 2021 to secratary, MeitY regarding Evaluation of the Innovation Excellence Indicators of Centrally Funded Research & Development Organizations, requestinng examination of the draft report at ministries end. 2. In this regard, draft report for Centre for Materials for Electronics Technology (C-MET) has been examined (Vol2, p-163) and following observations have been made: a)CMET has been considered for Basic R&D only. Accordingly, data submitted by CMET under Applied and Services category has not been incorporated. Request is made to include CMET under all three categories that is Basic, Applied and Service and incorporation of all its data to reflect CMET's work in entirety. b)The mandate of the institution needs amendment as per following: 'THE VISION: C-MET will become a premier R&D organization known all over the world for its knowledge base, innovations and expertise in Electronic Materials. THE MISSION To develop knowledge base in electronic materials and their processing technology for Indian industries and to become a source of critical electronic materials, know-how and services for the industry and other sectors of economy. THE OBJECTIVES: (a) To establish the technology up to pilot-plant scale for a range of electronic materials and transfer the same to industry for commercialization. (b) To establish relevant advanced analytical facilities (c) To undertake applied research activities in the area of its operation" 3. I would request for kind consideration of para 2 at your end.	MeitY	CMET's final submission was made only for the Basic category of labs. The portal shows that CMET had initiated data entry for Applied and Services Labs but did not make the final submission. On the portal the entries for Applied and Services are showing as draft. Data for analysis of lab entries only gets downloaded when final submission is made. The responses to Applied and Services may be considered in next round of the study as date for final submission was 10 November 2020. No entries after that have been considered unless lab provided clarifications during data validation process. Comments to labs on their data was sent on 8 February 2021 - the lab responded on 12 February and again on 1 April requesting for more time to respond to the data but did not raise any concerns about the entries or provide any clarifications that had been sought thereafter. The mandate for CMET has been changed as requested.

Table 7: Comments from MoEFCC

S. No.	Comments	Organizations/ Departments/ Ministry	Action Taken
1	ICFRE has submitted information pertaining to all the three labs (Basic, Applies and Servies) keeping in view of the nature of the lab, however, as per report, ICFRE has been considered only for basic lab. It is requested that ICFRE must be considered as per the provided information for all the three categories as Hybrid lab.	ICFRE Dehradun	The lab only provided a final submission for data on Basic Labs. The online portal shows the lab has a draft for Applied and Services entries. Final submissions have been considered for this round and unfortunately the Applied and Services Category for this lab would need to be considered in future rounds.

S. No.	Comments	Organizations/ Departments/ Ministry	Action Taken
1	2. ICFRE has provided all the required data along with the information asked by the agency, however, it is mentioned in the lab sheet that data has not been validated.	ICFRE Dehradun	With respect to data not being validated, there is only one data point - increase in number of staff for 2017-18 that could not be validated and hence has a purple mark against it.

Table 8: Comments from other labs

S. No.	Comments	Dept	Action Taken
1	In reference to your office D.O No. Pm.SA/SS/07812020 dated I lll0l202l on the subject mentioned above, I am directed to convey the following comments for information and further necessary action: On page 197 of vol. 2 of the report, under the "Mandate of the institution", mandate of Central Council for Research in Homeopathy has been wrongly mentioned instead of that of CPRI. The mandate of CPRI as given below may be incorporated in the said section: "Central Power Research Institute (CPRI) which is an autonomous society under the Ministry of Power, functions as a national power research organization for undertaking and sponsoring R&D projects in the fields of generation, transmission, distribution and operation of electricity supply systems. CPRI provides necessary centralized research and testing facilities for evaluation of electrical materials and performance of power equipment, apart front serving as a national testing and certification authority for the purpose of certification of rating and performance to ensure availability of quality equipment for use under conditions prevalent in Indian power systems."	Central Power Research Institute, Ministry of Power	Noted
2	The draft report has been found to be very elaborative identifying various pillars constituting of Sustainable Development Goals (SDG) as well as national policies. The study has also brought out several recommendations for improving the output & the performance of the R&D Labs while describing the way forward mechanism. Based on the review, the following inputs are suggested in the following sections: - Page No. 141, Volume 1, Category 9.2 - Strengthening Organizational Capabilities "Inter-Laboratory comparison & data validation" may be incorporated under recommendation to strengthen the technical out-put of the Laboratory. - Page No. 145, Volume 1, 9.22 - Improve Technology Commercialization The time frame ranging from Initiation of developmental activity to its transfer of technology may be indicated. - Page No. 145, Volume 1, 9.23 - Improve facilitation of Intellectual Property Rights (IPRs) A data sheet corresponding to the time frame between Patent filed to grant may be indicated in each of the Labs. -Since Waste Management has been one of the prime objectives of the Government, a separate section on "Waste to Wealth" or Value Addition of Waste may be added. The labs engaged in the aforesaid areas of Research may be also highlighted.	Department of Chemicals and Petrochemicals, Ministry of Chemicals and Fertilizers	Noted

Table 9: Comments from NITI Aayog

S. No.	Comments	NITI	Action Taken
1	(i) Although the O/o the PSA to the GOI has collected very detailed data/information from various labs, the analysis of the data/ information received and the tentative ranking of these labs has not been done to check whether the framework created for ranking and rating is ok and matches with the general perception of the scientific community. (ii) The recommendations contained in that report, regarding the formation of an Expert committee to re-evaluate the framework and institutionalize the process of data collection and validation, gives the impression that seemingly endless formation of one committee after the other is coming in the way of actual implementation of said framework for ranking of the national R&D laboratories. (iii) The report should also include some incentives to the lab, that ranks higher than the others, by way of a special budget, in addition to the regular budget. Incentives to the Directors of such labs in their career progression, will infuse the healthy competitions amongst the labs. (iii) The report should also include some incentives to the lab, that ranks higher than the others, by way of a special budget, in addition to the regular budget. Incentives to the Directors of such labs in their career progression, will infuse the healthy competitions amongst the labs. (iv) The Framework prepared by the NITI Aayog, in consultation with all the stakeholders, is very comprehensive and has covered specific questionnaires along with weightages. There is only a need to convert the data/information into quantitative numbers to arrive at a score for each lab. (v) The PSA's Office is, therefore, requested to simply bring-out, concisely, the mechanism for the implementation of the earlier recommendations of the NITI Aayog, so that the next step could be taken to actually start ranking the public funded R&D organizations, just like the rankings done in the India Innovation Index and the Global Innovation Index.	NITI Aayog	(i) In February 2021, scores of 56 Basic Labs, 106 Applied and 45 Services Labs were computed using the Framework developed by Niti Aayog. Ranking the labs using this scoring methodology, where the ranks were obtained based on scores at the five decimal level, needed to be interpreted with caution. As this is a first time exercise, while ranking was given due consideration, focussing on the rich data that had been collected and making it available for the labs was given impetus. One of the recurring concerns highlighted by labs was the comparison of performance of labs given their different areas of sectoral focus. Thus, for this exercise, the data have been used in the following ways: 1. The Framework has been used to compute scores to derive a spider chart that reflects the performance of the labs under each category across the 11 sub-pillars. The average pillar-wise performance for each category of labs has also been reported in the study. This is one way in which the data submitted by labs has been used. 2. Another way the data submitted by labs has been used is in the computation of quartiles for relative performance. One of the highlights of this study is the individual lab sheets that provides the raw data submitted by labs scaled by either the budget of the lab or the scientific staff at the lab. In addition to the responses for each of the three years, the lab sheet also displays performance of the lab indicator wise. In order to determine the performance of each indicator, the three year average of the scaled responses of the labs was taken and assigned a colour code depending upon the quartile quartile to which the response belonged. The responses of all 193 labs were taken into account when computing the quartiles. Where the labs did not provide any clarification, the data has been presented in its original form (scaled by budget or scientific staff where appropriate).

S. No.	Comments	NITI	Action Taken
		NITI Aayog	The data that could not be validated were marked in a separate colour. Presenting information by each indicator is intended to provide forward guidance to the labs to consider opportunities that may become an area of focus for them depending on their mandate. (ii) The recommendation regarding the formation of an Expert committee to re-evaluate the framework and institutionalize the process of data collection and validation has been presented based on the feedback from labs to refine the framework and the implementation thereof. ICAR also supported the review of the framework. Labs have provided feedback on certain indicators which maybe relooked at/refined to address concerns. For example, feedback has been received on the kind of awards listed in the framework - as the framework is sector agnostic, only certain national awards such as the Padma awards were included but the feedback from labs suggest that this list does not fully reflect the achievements of the lab and sector specific awards may be considered. Similar feedback on other indicators will help refine the framework indicators. As this is the first time the framework has been implemented, a lion's share of the effort was on getting a buy-in from the labs to participate and respond to the said questionnaires in a complete and coherent manner. Extensive handholding was done to familiarise the labs with the NITI Aayog framework. Given ongoing efforts towards data architecture, it may be useful and prudent use of resources to institutionalise the process of data collection and validation based on the learnings from this study. Moreover, labs from the Department of Space, Department of Atomic Energy and the Department of Defence did not participate in this round but form a crucial part of the national R&D laboratories. The formation of an expert committee will be important to take decisions on the right path to consider these set of labs. Thus, we are of the opinion that the formation of an expert committee will be crucial for strengthening the framework and in the implementation of the second round.

S. No.	Comments	NITI	Action Taken
			(iii) The allocation of a special budget or any other incentives are the domain of respective ministries. While the data presented allows for individual and group benchmarking and can be used for forward guidance, respective ministries and departments may consider incentives based on their particular priorities. (iv) and (v) The responses in point (i) and (ii) explains the use of the information and quantitative numbers derived from the same.

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