

**GOVERNMENT OF INDIA
SCIENCE AND TECHNOLOGY
LOK SABHA**

UNSTARRED QUESTION NO:2929
ANSWERED ON:03.08.2016
Laboratories under CSIR
By Prof. Richard

Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

- (a) the number of laboratories functioning under the Council of Scientific and Industrial Research in the country;
(b) the details of the funds earmarked/ allocated and utilised by these laboratories during each of the last three years and the current year, State/UT-wise;
(c) the details of research works undertaken by these laboratories during the above period;
(d) whether the Government is planning/considering to modernise these laboratories; and
(e) if so, the details thereof and the time by which these laboratories are likely to be redeveloped?

Answer

MINISTER OF STATE OF SCIENCE AND TECHNOLOGY AND EARTH SCIENCES

(SHRI Y.S. CHOWDARY)

(a) The Council of Scientific & Industrial Research (CSIR) is a premier R&D organization with a pan India presence of 38 constituent laboratories and 39 field centres.

(b)&(c) The details of the funds earmarked/allocated and utilized by CSIR laboratories during each of the last three years and the current year, State/UT-wise; and the details of R&D projects undertaken by these laboratories during that period is provided in Annexure-I.

(d)&(e) As per the availability of resources, the infrastructure of constituent laboratories of CSIR are continuously updated, upgraded, replenished and refurbished in terms of latest equipments, modern facilities and other services which help in pursuing cutting edge science and technology frontiers in the domains of Biological Sciences & Technology, Chemical Sciences & Technology, Engineering Sciences & Technology, Physical Sciences & Technology and Information Sciences & Technology with inter-and trans-disciplinary efforts also.

ANNEXURE-I

State wise, Laboratory-wise and Project wise Budget allocated during 2013-14 to 2016-17
Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

State / U.T. : Assam

Laboratory: CSIR-NEIST

1 New initiatives to boost agriculture productivity through maximizing pre- and post-harvest yields (AGROPATHY)	35.632	35.820	41.760	19.920
2 Bioprospection of plant resources and other natural products (BioprosPR)	15.789	13.225	16.400	19.400
3 Plant Diversity: Studying adaptation biology and understanding/exploiting medicinally important plants for useful bioactives (SIMPLE)	50.753	19.240	29.180	25.680
4 Introduction, domestication, improvement and cultivation of economically important plants (AGTEC)	30.062	31.568	31.447	46.309
5 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH)	37.497	23.625	24.250	33.350
6 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE)	33.011	26.120	22.660	20.660
7 Therapeutics of Chronic Obstructive Pulmonary Disease (COPD) and Related Respiratory Disorders (TREAT)	32.355	11.190	14.000	9.000
8 Plant-Microbe and Soil Interactions (PMSI)	22.577	19.179	24.590	25.900
9 S&T interventions to combat malnutrition in women and children (HCP07)	2.589	12.684	15.443	7.630
10 Zero Emission Research Initiative for Solid Wastes from Leather (ZERIS)	12.637	14.250	26.700	24.200
11 Membrane & Adsorbent Technology Platform for Effective Separation of Gases and Liquids (MATES)	94.958	47.744	38.080	45.360
12 Biocatalysts for Industrial Applications & Greener Organic Synthesis (BIAGOS)	72.482	45.700	34.500	43.000
13 Inherently Safer Practices for Industrial Risk Reduction (INSPIRE)	78.530	26.685	30.470	36.790
14 Organic reactions in generating innovative and natural scaffolds (ORIGIN)	85.849	80.364	35.500	43.000
15 Development of Sustainable Processes for Edible Oils with Health Benefits from Traditional and New Resources (PEOPLE HOPE)	22.437	32.387	17.137	24.880

16 Development of Sustainable Waste Management Technologies for Chemical and Allied Industries (SETCA) 52.197 49.451 50.860 34.200
 17 Biomass to Energy (BioEn) 54.065 36.428 37.992 41.892
 18 New generation lubricants and additives (GenLube) 74.224 40.745 34.270 30.770
 19 Catalysts for Speciality Chemicals (CSC) 123.606 100.276 71.160 72.000
 20 Natural Products as Affordable Healthcare Agents (NaPAHA) 179.840 158.335 97.377 99.060
 21 Environmental Research Initiative for Paper and Process Industry (ERIPP) 168.975 139.584 104.800 106.800

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

22 Molecules to Materials to Devices (M2D) 46.120 42.548 35.334 41.420
 23 Speciality Materials based on Engineered Clays (SPECS) 67.649 62.775 57.000 52.500
 24 Advanced Polyolefins (SPIRIT) 49.808 69.450 50.000 59.000
 25 North East Exploration for Pharmaceutical (NEEP) 122.802 148.500 83.000 103.000
 26 Affordable Cancer Therapeutics (ACT) 44.082 78.300 35.088 43.208
 27 CSIR Advanced Analytical Facility for North East (CAAF-NE) 131.740 316.625 26.263 27.820
 28 Engineering of Disaster Mitigation and Health Monitoring for Safe and Smart Built Environment (EDMISSIBLE) 47.409 29.320 17.680 22.580
 29 Open Source Drug Discovery programme (OSDD) 9.350 15.000 10.000
 30 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 0.000 9.460 2.930
 31 Advanced Research in Engineering & Earth Sciences: Data intensive modelling and crowd sourcing approach (ARiEES) 21.391 19.600 15.700 17.600
 32 Probing the Changing Atmosphere and its Impacts in Indo-Gangetic Plains (IGP) and Himalayan Regions (AIM-IGPHim) 27.102 8.538 7.984 7.484
 33 Development of novel leather products based on ethnic designs 0.000 20.000 0.000
 34 R&D Activities Focused at Rural Development (RSP4001) 0.000 0.000 21.793 22.400
 35 R&D Activities Focused at Rural Development (RSP4007) 0.000 0.000 98.000

Laboratory: CSIR-NEIST 1847.520 1775.256 1265.877 1209.743

Total of Assam 1847.520 1775.256 1265.877 1209.743

State / U.T. : Chandigarh (U.T.)

Laboratory: CSIR-CSIO

1 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 12.693 7.041 7.201 10.620
 2 Effective Application of Community Health Efforts through New Age, IT Based Modes (EACH-IT) 0.000 5.418 4.311 10.600
 3 Zero Emission Research Initiative for Solid Wastes from Leather (ZERIS) 5.500 6.364 10.144 10.000
 4 Engineering of Disaster Mitigation and Health Monitoring for Safe and Smart Built Environment (EDMISSIBLE) 86.508 29.332 24.500 35.420
 5 Development of Novel CSIR Technologies for Manufacturing Tailored and Patient-Specific Bioceramic Implants and Biomedical Devices at Affordable Cost (BIOCERAM) 16.548 18.865 6.761 6.270
 6 Development and Application of Technologies for Sustainable Transportation (SUSTRANS) 9.277 6.310 3.999 4.562

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

7 Innovative Technologies for Health Assessment and Damage Mitigation of Structures (I-HEAL) 30.113 41.647 34.350 39.100
 8 Robotics and Micro Machines (ROuM) 21.959 27.806 12.691 18.770
 9 Autonomous Underwater Robotics (UnWaR) 37.243 38.371 30.064 21.600
 10 Clean Water: Sustainable Options (Clean Water) 0.000 14.983 50.926 9.150
 11 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 0.000 1.735 2.930
 12 Advanced Instrumentation Solutions for Health Care and Agro-based Applications (ASHA) 391.938 391.481 251.613 252.980
 13 Opto-Mechatronics Technologies for Next Generation Sensors and Applications (OMEGA) 1296.959 890.420 1536.190 701.120

Laboratory: CSIR-CSIO 1908.739 1478.038 1974.488 1123.122

Laboratory: CSIR-IMTECH

1 Emerging and re-emerging challenges in infectious diseases: Systems based drug design for 48.700 48.086 53.101 53.900 infectious diseases (SPlenDID)

2 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 15.740 20.580 23.128 23.190

3 Understanding supra molecular ensembles and machines (UNSEEN) 264.953 59.999 66.638 73.500

4 Host Interactome analysis: Understanding the Role of Host molecules in Parasitic Infection 7.240 8.971 14.150 323.205 (HOPE)

5 Plant-Microbe and Soil Interactions (PMSI) 28.700 28.775 35.212 28.610

6 Epigenetics in Health and Disease (EpiHeD) 27.875 25.749 22.250 22.650

7 Man as a Superorganism: Understanding the Human Microbiome (HUM) 226.725 209.603 294.792 299.550

8 Centre for BIOtherapeutic Molecule DISCOVERY (BIODISCOVERY) 1187.863 556.755 1428.907 318.600

9 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 278.417 277.191 293.600 228.660

10 Multidirectional approaches for molecular and systems level understanding of regulatory 425.309 321.889 389.500 431.000 networks in pathogenic microbes (INFECT)

11 Drug Discovery: Bugs to Drugs Programme (BUGS TO DRUGS) 297.751 239.509 367.922 384.500

12 Expansion and Modernization of the Microbial Type Culture Collection and Gene Bank (MTCC) 273.764 972.486 1526.314 553.884

13 Natural Products as Affordable Healthcare Agents (NaPAHA) 5.400 4.100 5.755 6.300

14 Environmental Research Initiative for Paper and Process Industry (ERIPP) 17.095 15.351 13.350 13.400

15 Advanced ceramics materials and components for energy and structural application 7.942 10.701 14.434 12.744

16 Open Source Drug Discovery programme (OSDD) 40.729 19.852 35.522

17 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 6.572 2.735 0.000

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

Laboratory: CSIR-IMTECH 3154.203 2826.169 4587.309 2773.693

Total of Chandigarh (U.T.) 5062.942 6079.463 6561.797 3896.815

State / U.T. : Delhi

Laboratory: CSIR-CRRI

1 Design analysis and health assessment of Special structures including bridges 39.720 0.000 0.000

2 Zero Emission Research Initiative for Solid Wastes from Leather (ZERIS) 7.178 12.264 26.019 24.100

3 Engineering of Disaster Mitigation and Health Monitoring for Safe and Smart Built Environment 29.071 26.777 19.627 19.090 (EDMISSIBLE)

4 Development and Application of Technologies for Sustainable Transportation (SUSTRANS) 404.351 309.907 326.117 223.540

5 Innovative Technologies for Health Assessment and Damage Mitigation of Structures (I-HEAL) 19.623 14.369 16.266 17.300

6 Autonomous Underwater Robotics (UnWaR) 24.504 32.756 38.650 21.350

7 Evaluation of Economic Loss Due to Idling of Vehicles at Signalized and Mitigation Measures 104.971 73.125 40.807 20.350 (ELSIM)

8 Development of Indian Highway Capacity Manual (Indo-HCM) 302.180 208.596 117.806 76.465

9 Clean Water: Sustainable Options (Clean Water) 1.594 3.400 4.000 3.150

10 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 5.390 0.936 0.000

11 Vulnerability assessment and development of adaption strategies for climate change impact 0.000 0.000 54.889 26.250 with special reference to coasts and island ecosystems of India (VACCIN)

12 Probing the Changing Atmosphere and its Impacts in Indo-Gangetic Plains (IGP) and Himalayan 6.872 5.808 6.984 8.004 Regions (AIM-IGPHim)

13 Development of a Management System for Maintenance Planning and Budgeting of High Speed 47.557 0.000 0.000 Road Corridors

Laboratory: CSIR-CRRI 993.012 687.938 651.166 439.599

Laboratory: CSIR-HQ

1 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 3.734 4.762 6.009 19.180

2 S&T interventions to combat malnutrition in women and children (HCP07) 0.000 0.020 0.146 1.625

3 Open Source Drug Discovery programme (OSDD) 349.355 456.563 198.229

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

4 Distinguished Scientist (DS) 21.760 0.000 0.000
5 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 0.000 3.565 2.930
6 Patinformatics (Patinformatics) 91.225 102.009 126.350
7 Chembioinformatics for Drug Discovery (ISC0203) 80.943 88.944 114.370
8 Open Science and Open Innovation Infrastructure (OSOI) 85.738 118.652 79.492

Laboratory: CSIR-HQ 632.755 770.950 528.160 23.735

Laboratory: CSIR-IGIB

1 New Approaches Towards Understanding of Disease Dynamics and to Accelerate Drug Discovery (UNDO) 42.300 21.049 29.653 32.600
2 Emerging and re-emerging challenges in infectious diseases: Systems based drug design for infectious diseases (SPlenDID) 21.350 33.305 20.345 17.900
3 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 54.365 36.810 34.834 42.950
4 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 23.170 12.287 16.767 16.820
5 Therapeutics of Chronic Obstructive Pulmonary Disease (COPD) and Related Respiratory Disorders (TREAT) 156.213 140.610 174.595 141.100
6 Epigenetics in Health and Disease (EpiHeD) 117.625 114.224 75.609 65.500
7 Centre for BIOtherapeutic Molecule DISCOVERY (BIODISCOVERY) 31.900 26.998 29.574 30.000
8 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 69.703 55.743 40.979 43.000
9 Centre for Cardiovascular and Metabolic Disease Research (CARDIOMED) 1292.175 737.906 898.964 913.930
10 Genome Dynamics in cellular organization, differentiation and enantiostasis (GenCODE) 865.875 747.885 982.398 941.500
11 CSIR-NCL-IGIB Joint Research Initiative: Interfacing Chemistry and Biology (CSIR-NCL-IGIB-JRI) 131.750 144.187 201.934 230.300
12 Wellness Genomics Project - Understanding genomic signatures of healthy living in Indian population (WG 100) 439.325 99.961 48.444 96.000
13 Towards Understanding skin Cell Homeostasis (TOUCH) 1034.052 676.946 881.238 866.904
14 Effective Application of Community Health Efforts through New Age, IT Based Modes (EACH-IT) 0.000 49.787 82.010 109.140
15 Visualisation of Organisms in Action (VISION) 123.000 105.602 1209.136 196.000
16 Advance Drug Delivery System (ADD) 3.650 4.570 5.992 6.000
17 Centre of Excellence: Waste Utilization and Management (WUM) 14.390 6.706 8.686 8.555
18 Clean Water: Sustainable Options (Clean Water) 0.000 10.987 15.475 15.350
19 Open Source Drug Discovery programme (OSDD) 58.000 21.317 0.000
20 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 3.997 0.880 0.000
Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

21 Vulnerability assessment and development of adaption strategies for climate change impact with special reference to coasts and island ecosystems of India (VACCIN) 0.000 0.000 73.836 57.950
22 Validation of Identified Screening Models and Development of New Alternative Models for Evaluation of New Drug Entities 0.000 4.560 0.000

Laboratory: CSIR-IGIB 4478.842 3055.437 4831.351 3831.499

Laboratory: CSIR-NISCAIR

1 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 89.934 117.431 68.609 119.650
2 Vulnerability assessment and development of adaption strategies for climate change impact with special reference to coasts and island ecosystems of India (VACCIN) 0.000 0.000 121.181 107.900
3 CSIR--Wide Consortium Access to Online Information Resources (NKRC) 1812.646 1920.772 2016.825 2123.029

Laboratory: CSIR-NISCAIR 1902.580 2038.203 2206.615 2350.579

Laboratory: CSIR-NISTADS

1 Indian S&T and Innovation Policy (ISTIP) 186.386 212.330 103.709 412.020

Laboratory: CSIR-NISTADS 186.386 212.330 103.709 412.020

Laboratory: CSIR-NPL

1 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 75.295 10.277 10.860 22.360
 2 Developing capabilities & facilities for Microelectromechanical systems (Mems) and Sensors 0.000 1.148 0.000
 3 Upgradation of SI Base Units, National Standards of Measurements & creation of a network of 0.000 23.290 0.000
 Calibration and testing laboratories and preparation & dissemination of CRMs
 4 Intelligent Coatings (IntelCoat) 11.067 10.134 15.630 14.400
 5 Development of Novel CSIR Technologies for Manufacturing Tailored and Patient-Specific 18.416 5.762 9.862 13.191
 Bioceramic Implants and Biomedical Devices at Affordable Cost (BIOCERAM)
 6 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 2.386 1.601 0.000
 7 Conducting polymer paints and coatings for corrosion protection and shielding of concrete 0.000 5.702 0.000
 structures in strategic areas
 8 Advancement in Metrology 1631.101 0.000 0.000

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

9 Novel Approaches for Solar energy conversion - a TAPSUN project 729.369 103.070 69.822 101.410
 10 Efficient silicon photovoltaics with smart electronics and lighting systems- a TAPSUN Project 584.457 84.953 223.011 207.700
 11 Innovative solution for solar energy storage under CSIR - a TAPSUN project 127.199 44.055 68.551 31.000
 12 Very High Power Microwave Tubes : Design and Development Capabilities (MTDDC) 14.898 10.552 17.391 13.780
 13 Research Initiative on Nano Devices and Nano-Sensors (R-Nano) 85.661 19.401 18.049 14.000
 14 Development of Advanced Materials for Next-Generation Energy-Efficient Devices (D-NEED) 278.850 138.874 934.129 228.000
 15 Advanced Quantum Research and Innovation with Ultra Small Systems (AQuaRIUS) 511.438 6.073 386.126 91.975
 16 Measurement for Innovation in Science & Technology (MIST) 514.154 437.054 807.339 229.500
 17 Probing the Changing Atmosphere and its Impacts in Indo-Gangetic Plains (IGP) and Himalayan 421.657 0.000 320.425 182.596
 Regions (AIM-IGPHim)
 18 Research and Development on Single Trapped Ion based Frequency Standard (STIOS) 285.399 52.595 219.952 145.000

Laboratory: CSIR-NPL 5291.345 954.541 3101.149 1294.912

Total of Delhi 13484.921 13798.862 11422.151 8352.344

State / U.T. : Goa

Laboratory: CSIR-NIO

1 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 56.693 52.740 73.670 73.670
 2 Acquisition of Oceanographic Research Vehicle 3644.048 0.000 0.000
 3 Autonomous Underwater Robotics (UnWaR) 77.044 110.260 123.700 51.450
 4 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 5.645 2.328 0.000
 5 Advanced Research in Engineering & Earth Sciences: Data intensive modelling and crowd 43.350 7.975 9.700 9.600
 sourcing approach (ARiEES)
 6 Vulnerability assessment and development of adaption strategies for climate change impact 0.000 0.000 69.800 73.200
 with special reference to coasts and island ecosystems of India (VACCIN)
 7 Innovation Complexes 40.000 0.000 0.000
 8 Geodynamic and Earthquake generating processes in NE India and Andaman Subduction Zone 160.500 177.000 26.000 18.420
 (GENIAS)
 9 Ocean Science Towards Forecasting Indian Marine Living Resource Potential (Ocean Finder) 1431.380 698.052 1813.580
 826.560
 10 Geological processes in the Indian Ocean - Understanding the input fluxes, sinks and 218.045 497.156 934.250 199.750
 Paleocceanography (GEOSINKS)

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

11 Geo-scientific investigations for deciphering the Earth's internal processes and exploration of 607.634 646.009 530.310 348.810
 energy resources (GEOSCAPE)
 12 Indian Aquatic Ecosystems: Impact of Deoxygenation, Eutrophication and Acidification (INDIAS 303.610 199.920 742.643
 203.040
 IDEA)
 13 Analyses and Harnessing of Marine Biodiversity for Bioremediation of Aquaculture and 93.973 106.320 239.206 97.300
 Industrial Effluents (MARINEBIOTECH)

Laboratory: CSIR-NIO 6681.921 2497.760 4562.858 1901.800

Total of Goa 6681.921 16296.622 4562.858 1901.800

State / U.T. : Gujrat

Laboratory: CSIR-CSMCRI

1 Bioprospection of plant resources and other natural products (BioprosPR) 15.950 26.750 38.080 49.400
2 Genomics of Medicinal Plants and Agronomically Important Traits (PlaGen) 7.750 14.422 15.262 20.000
3 Plant Diversity: Studying adaptation biology and understanding/exploiting medicinally important plants for useful bioactives (SIMPLE) 67.870 84.980 108.658 96.300
4 Plant-Microbe and Soil Interactions (PMSI) 42.856 37.408 39.618 47.400
5 Towards Understanding skin Cell Homeostasis (TOUCH) 18.559 17.605 21.905 20.117
6 Multifunctional electrodes and Electrolytes for Future Technologies (MUTLIFUN) 8.975 5.090 12.402 7.280
7 Clean Coal Technology (TapCoal) 139.870 80.987 53.466 56.380
8 Membrane & Adsorbent Technology Platform for Effective Separation of Gases and Liquids (MATES) 89.170 67.250 54.492 34.940
9 Potassic (K) fertilizer Technology to Empower the Nation (K-TEN) 345.300 517.630 613.086 260.750
10 Intelligent Coatings (IntelCoat) 7.025 4.310 5.450 4.550
11 Energy Efficient Technologies (E2++) 3.458 5.193 6.856 7.116
12 Biomass to Energy (BioEn) 83.719 84.128 130.945 81.392
13 Waste to Wealth - Waste plastics (W2W) 43.685 32.818 39.190 36.130
14 Hydrogen Energy: Overcoming materials challenges in PEMFC towards generation, separation, storage and conversion of hydrogen (HYDEN) 14.300 7.440 9.510 8.610
15 Innovate, develop and up-scale modular, agile, intensified and continuous processes and plants (Indus MAGIC) 134.250 118.838 119.455 98.000

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

16 A Multi-Scale Simulation and Modeling Approach to Designing Smart Functional Materials for use in Energy, Electrochemistry and Bio-mimetics (MSM) 15.494 17.239 15.078 17.896
17 Natural Products as Affordable Healthcare Agents (NaPAHA) 10.400 13.500 14.000 13.000
18 Environmental Research Initiative for Paper and Process Industry (ERIPP) 12.500 20.340 22.688 22.500
19 Molecules to Materials to Devices (M2D) 34.955 45.450 38.852 38.980
20 Speciality Materials based on Engineered Clays (SPECS) 37.700 17.337 21.197 24.300
21 High Purity Salt & Recovery of Valuable Metal Ions from Marine Resources (HPSMC) 592.765 600.916 719.161 411.826
22 Clean Water: Sustainable Options (Clean Water) 0.000 6.050 9.050 6.550
23 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 0.000 10.120 2.930
24 Vulnerability assessment and development of adaption strategies for climate change impact with special reference to coasts and island ecosystems of India (VACCIN) 0.000 0.000 67.176 28.700
25 Ocean Science Towards Forecasting Indian Marine Living Resource Potential (Ocean Finder) 7.260 4.333 12.870 7.500
26 Sisal- potentials for Rural Development & Green Technology 0.000 20.000 0.000
27 R&D Activities Focused at Rural Development (RSP4021) 0.000 0.000 69.000

Laboratory: CSIR-CSMCRI 1733.810 1850.014 2267.567 1402.547

Total of Gujrat 1733.810 18146.636 2267.567 1402.547

State / U.T. : Himachal Pradesh

Laboratory: CSIR-IHBT

1 New initiatives to boost agriculture productivity through maximizing pre- and post-harvest yields (AGROPATHY) 100.215 77.499 88.680 45.680
2 Bioprospection of plant resources and other natural products (BioprosPR) 33.600 39.994 49.392 59.400
3 Genomics of Medicinal Plants and Agronomically Important Traits (PlaGen) 146.000 86.390 159.800 114.870
4 Plant Diversity: Studying adaptation biology and understanding/exploiting medicinally important plants for useful bioactives (SIMPLE) 668.510 245.843 434.040 302.040
5 Introduction, domestication, improvement and cultivation of economically important plants (AGTEC) 130.656 96.232 124.289 124.169
6 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 72.844 27.520 20.390 20.360

7 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 10.320 6.660 9.880 9.130
8 Plant-Microbe and Soil Interactions (PMSI) 78.940 86.027 115.939 103.480
9 Epigenetics in Health and Disease (EpiHeD) 72.765 26.922 22.930 21.180

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

10 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 5.920 64.530 9.669 8.570
11 S&T interventions to combat malnutrition in women and children (HCP07) 10.995 22.440 27.320 6.830
12 Establishment of Centre for High Altitude Biology (CeHAB) 222.927 355.047 461.400 496.500
13 Process and Products from Himalayan Region and their toxicological evaluation (PROMOTE) 180.897 250.690 236.840 226.300
14 Plant Breeding, Genomics and Biotechnology (PLOMICS) 42.125 54.540 63.160 61.360
15 Organic reactions in generating innovative and natural scaffolds (ORIGIN) 21.720 25.063 28.650 29.730
16 Natural Products as Affordable Healthcare Agents (NaPAHA) 15.200 14.340 17.116 17.130
17 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 5.645 2.355 0.000
18 Advanced Instrumentation Solutions for Health Care and Agro-based Applications (ASHA) 34.025 16.500 20.100 18.200
19 Probing the Changing Atmosphere and its Impacts in Indo-Gangetic Plains (IGP) and Himalayan 18.492 11.638 15.984 15.984
Regions (AIM-IGPHim)
20 Tea advisory services for production of quality tea 0.000 16.567 0.000
21 R&D Activities Focused at Rural Development (RSP4001) 0.000 0.000 15.860 14.360
22 R&D Activities Focused at Rural Development (RSP4006) 0.000 0.000 94.375

Laboratory: CSIR-IHBT 1871.798 1526.797 2015.814 1695.273

Total of Himachal Pradesh 1871.798 19673.433 2015.814 1695.273

State / U.T. : Jammu & Kashmir

Laboratory: CSIR-IIIM

1 Bioprospection of plant resources and other natural products (BioprosPR) 33.200 47.349 59.312 69.900
2 Medicinal Chemistry for stem cell biology and regenerative medicine (MEDCHEM) 284.779 213.050 271.950 268.950
3 Plant Diversity: Studying adaptation biology and understanding/exploiting medicinally important 83.929 74.460 68.679 63.180
plants for useful bioactives (SIMPLE)
4 Introduction, domestication, improvement and cultivation of economically important plants 90.318 116.447 196.231 195.398
(AGTEC)
5 Plant-Microbe and Soil Interactions (PMSI) 125.636 51.981 89.500 82.900
6 Centre for BIOtherapeutic Molecule DISCOVERY (BIODISCOVERY) 4.054 13.649 11.599 11.700
7 Nurturing a new Pan-CSIR drug pipe line: high intensity preclinical, clinical studies on lead 758.515 973.166 723.461 859.000
candidates (DPL)
8 Towards Understanding skin Cell Homeostasis (TOUCH) 33.716 23.103 36.429 26.429
9 Open Source Drug Discovery programme (OSDD) 24.750 11.360 0.000

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

10 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 5.645 2.328 0.000
11 Innovation Complexes 1434.070 4.279 0.000
12 Rural development program including (i) Cultivation of medicinal plants & aromatic plants, (ii) Bio- 10.000 0.000 0.000
pesticides & bio-fertilizers and (iii) Mosquito eradication program
13 R&D Activities Focused at Rural Development (RSP4001) 0.000 0.000 180.547 255.484
14 R&D Activities Focused at Rural Development (RSP4023) 0.000 0.000 16.000

Laboratory: CSIR-IIIM 2888.612 1531.172 1653.708 1832.941

Total of Jammu & Kashmir 2888.612 21204.605 1653.708 1832.941

State / U.T. : Jharkhand

Laboratory: CSIR-CIMFR

1 Clean Coal Technology (TapCoal) 141.074 273.823 107.970 95.610
2 Potassic (K) fertilizer Technology to Empower the Nation (K-TEN) 92.510 96.215 44.784 48.500

3 Advanced ceramics materials and components for energy and structural application 14.959 11.510 7.825 8.932
 4 Development of a technology for optimal extraction of locked-up coal from underground mines using artificial pillars (DeCoalArt) 236.310 353.152 132.169 170.100
 5 Development of Zero Waste Technology for Processing and Utilization of Thermal Coal (ZWT- CUP) 7.739 9.684 11.489 9.350
 6 Robotics and Micro Machines (ROuM) 48.194 25.800 33.227 37.250
 7 Development of underground coal gasification technology in India (CoalGasUrja) 137.897 328.924 71.680 96.360
 8 Development of suitable design methodology for extraction of coal at greater depths (>300 m) for Indian geomining conditions (DeepCoal) 465.356 450.567 109.260 83.010
 9 National Clean Air Mission (NCAM) 7.896 6.257 5.452 4.706
 10 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 0.000 7.085 2.930

Laboratory: CSIR-CIMFR 1151.936 1555.932 530.943 556.748

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

Laboratory: CSIR-NML

1 Sustainable Technologies for the Utilization of Rare Earths (SURE) 29.145 12.777 16.584 15.834
 2 Development of Novel CSIR Technologies for Manufacturing Tailored and Patient-Specific Bioceramic Implants and Biomedical Devices at Affordable Cost (BIOCERAM) 18.251 9.339 10.823 10.823
 3 Advanced ceramics materials and components for energy and structural application 4.396 8.369 10.029 9.806
 4 Development of Zero Waste Technology for Processing and Utilization of Thermal Coal (ZWT- CUP) 102.234 105.609 204.382 41.710
 5 Development of Magnesium Metal Production Technology (MPT) 301.787 99.259 99.253 42.100
 6 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 4.655 2.849 0.000
 7 Very High Power Microwave Tubes : Design and Development Capabilities (MTDDC) 17.410 19.139 17.619 13.320
 8 Measurement for Innovation in Science & Technology (MIST) 4.000 5.353 40.088 8.000

Laboratory: CSIR-NML 477.223 264.500 401.628 141.593

Total of Jharkhand 1629.159 23025.037 932.571 698.341

State / U.T. : Karnataka

Laboratory: CSIR-4PI

1 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 7.704 5.142 5.145 6.580
 2 Engineering of Disaster Mitigation and Health Monitoring for Safe and Smart Built Environment (EDMISSIBLE) 31.826 19.139 7.566 11.090
 3 Development of suitable design methodology for extraction of coal at greater depths (>300 m) for Indian geomining conditions (DeepCoal) 1.600 1.885 1.299 1.600
 4 Distinguished Scientist (DS) 1.456 0.000 0.000
 5 Distinguished Scientist (DS) 10.286 11.886 0.000
 6 Advanced Research in Engineering & Earth Sciences: Data intensive modelling and crowd sourcing approach (ARiEES) 548.994 593.413 358.831 423.800
 7 Vulnerability assessment and development of adaption strategies for climate change impact with special reference to coasts and island ecosystems of India (VACCIN) 0.000 0.000 36.949 45.960
 8 Setting up State-of-art Multi-Teraflop High Performance Computing (HPC) Facility 74.999 96.676 0.000
 9 Integrated Analysis for Impact, Mitigation and Sustainability (IAIMS): Regional Climate Modelling at Decade Scale 1036.342 0.000 0.000
 10 Indian Aquatic Ecosystems: Impact of Deoxygenation, Eutrophication and Acidification (INDIAS IDEA) 4.397 7.120 8.978 8.020

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

11 Probing the Changing Atmosphere and its Impacts in Indo-Gangetic Plains (IGP) and Himalayan Regions (AIM-IGPHim) 5.341 6.437 11.243 6.984

Laboratory: CSIR-4PI 1722.946 741.698 430.012 504.034

Laboratory: CSIR-CFTRI

1 New Approaches Towards Understanding of Disease Dynamics and to Accelerate Drug Discovery (UNDO) 20.500 9.680 11.720 13.400
2 New initiatives to boost agriculture productivity through maximizing pre- and post-harvest yields (AGROPATHY) 633.750 584.984 546.228 417.280
3 Bioprospection of plant resources and other natural products (BioprosPR) 6.700 9.755 12.400 13.400
4 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 2.750 3.300 5.300 5.300
5 S&T interventions to combat malnutrition in women and children (HCP07) 12.225 21.260 27.772 7.400
6 Wellness through Foods and Nutraceuticals (WELFO) 295.220 287.050 233.609 184.000
7 Lipidomics Center (LIPIC) 763.316 144.949 147.695 173.700
8 Creation of Advanced Research Facility in Molecular Nutrition (Nutri-ARM) 153.852 93.640 139.177 136.520
9 Zero Emission Research Initiative for Solid Wastes from Leather (ZERIS) 49.230 47.468 48.720 76.100
10 Membrane & Adsorbent Technology Platform for Effective Separation of Gases and Liquids (MATES) 8.160 9.698 9.796 10.370
11 Development of Sustainable Processes for Edible Oils with Health Benefits from Traditional and New Resources (PEOPLE HOPE) 3.899 4.676 6.196 5.734
12 Encapsulated Microorganisms for Environmental Protection (EMEP) 35.060 35.390 27.880 30.320
13 Open Source Drug Discovery programme (OSDD) 15.608 5.000 0.000
14 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 5.265 2.328 0.000
15 Measurement for Innovation in Science & Technology (MIST) 11.440 6.880 7.320 7.680
16 Sisal- potentials for Rural Development & Green Technology 0.000 20.000 0.000
17 R&D Activities Focused at Rural Development (RSP4008) 0.000 0.000 30.152

Laboratory: CSIR-CFTRI 2016.975 1286.058 1253.964 1081.204

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

Laboratory: CSIR-NAL

1 Novel Energy Effective Metallic Materials for Automotive and General Engineering Application (LWM) 48.728 6.800 9.300 9.100
2 Development of Novel CSIR Technologies for Manufacturing Tailored and Patient-Specific Bioceramic Implants and Biomedical Devices at Affordable Cost (BIOCERAM) 65.433 18.489 20.563 12.415
3 Advanced ceramics materials and components for energy and structural application 12.532 2.696 3.035 2.686
4 Development and Application of Technologies for Sustainable Transportation (SUSTRANS) 12.920 1.875 2.750 2.250
5 Technology Solutions for Micro Air Vehicle Development (MAT) 648.206 286.785 245.073 208.590
6 Robotics and Micro Machines (ROuM) 65.774 18.361 21.450 21.450
7 Avionics and Flight Controls Civil Aerospace Technologies (AFCCAT) 0.000 348.587 452.080 289.350
8 Advanced Structural Technologies for Aircraft (ASTA) 320.277 369.644 479.578 317.738
9 Aerodynamics and Propulsion Technologies for Next Generation Civil Aircraft (ADPR) 0.000 339.808 691.086 348.910
10 Transport Aircraft Design Bureau (TADB) 0.000 115.843 87.112 151.760
11 Augmentation and Refurbishment of National Trisonic Aerodynamic Facilities (NTAF) 148.418 260.875 193.882 51.000
12 Distinguished Scientist (DS) 1.583 0.000 0.000
13 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 6.905 2.850 0.000
14 Advanced Research in Engineering & Earth Sciences: Data intensive modelling and crowd sourcing approach (ARIEES) 43.400 14.650 18.400 19.800
15 Spearhaeding Small Civilian Aircraft Design, Development and Manufacturing 1500.008 0.000 0.111

Laboratory: CSIR-NAL 2867.279 1791.318 2227.270 1435.049

Total of Karnataka 6607.200 26844.111 3911.245 3020.287

State / U.T. : Kerala

Laboratory: CSIR-NIIST

1 Towards holistic understanding of Complex Diseases: Unraveling the Threads of Complex Diseases (THUNDER) 24.700 11.015 15.050 16.800
2 New Approaches Towards Understanding of Disease Dynamics and to Accelerate Drug Discovery (UNDO) 16.540 13.580 11.000 11.600
3 New initiatives to boost agriculture productivity through maximizing pre- and post-harvest yields 16.215 28.820 23.769 16.420

(AGROPATHY)

4 Bioprospection of plant resources and other natural products (BioprosPR) 5.245 5.736 7.250 8.400
5 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 9.595 4.475 5.890 5.990
Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

6 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 18.820 10.540 12.020 12.120
7 Plant-Microbe and Soil Interactions (PMSI) 8.750 7.638 11.250 9.400
8 Centre for BIOtherapeutic Molecule DISCOVERY (BIODISCOVERY) 7.700 3.973 5.700 8.500
9 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 8.975 11.050 18.100 17.350
10 S&T interventions to combat malnutrition in women and children (HCP07) 7.593 29.112 38.750 4.563
11 Multifunctional electrodes and Electrolytes for Future Technologies (MUTLIFUN) 17.040 14.155 51.940 16.880
12 Organic reactions in generating innovative and natural scaffolds (ORIGIN) 77.000 51.500 85.000 41.500
13 Development of Sustainable Processes for Edible Oils with Health Benefits from Traditional and 69.277 52.112 47.822 34.620
New Resources (PEOPLE HOPE)
14 Intelligent Coatings (IntelCoat) 102.300 107.925 61.000 63.250
15 Waste to Wealth - Waste plastics (W2W) 27.990 8.625 10.900 9.400
16 Innovate, develop and up-scale modular, agile, intensified and continuous processes and plants 31.125 33.775 39.250 29.750
(Indus MAGIC)
17 Catalysts for Speciality Chemicals (CSC) 23.795 30.068 31.000 23.000
18 Encapsulated Microorganisms for Environmental Protection (EMEP) 26.960 29.714 19.660 21.660
19 A Multi-Scale Simulation and Modeling Approach to Designing Smart Functional Materials for use 24.146 16.034 32.455 39.192
in Energy, Electrochemistry and Bio-mimetics (MSM)
20 Natural Products as Affordable Healthcare Agents (NaPAHA) 223.170 89.990 94.500 94.420
21 Environmental Research Initiative for Paper and Process Industry (ERIPP) 50.000 62.816 45.550 35.450
22 Sustainable Technologies for the Utilization of Rare Earths (SURE) 332.733 461.726 254.156 273.447
23 Development of functional foods and their formulations for potential health benefits of common 237.770 124.434 151.236 142.436
man (FUNHEALTH)
24 Molecules to Materials to Devices (M2D) 224.153 245.496 205.541 266.650
25 Speciality Materials based on Engineered Clays (SPECS) 58.375 67.533 53.000 60.000
26 Novel Energy Effective Metallic Materials for Automotive and General Engineering Application 43.125 24.644 35.500 24.100
(LWM)
27 Clean Water: Sustainable Options (Clean Water) 0.000 6.451 18.910 12.400
28 Open Source Drug Discovery programme (OSDD) 9.000 20.608 0.000
29 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 5.645 2.328 0.000
30 Vulnerability assessment and development of adaption strategies for climate change impact 0.000 0.000 26.500 25.500
with special reference to coasts and island ecosystems of India (VACCIN)
31 Novel Approaches for Solar energy conversion - a TAPSUN project 97.250 30.353 37.000 35.960
32 Efficient silicon photovoltaics with smart electronics and lighting systems- a TAPSUN Project 120.500 190.766 47.000 48.750
33 Development of a reverse flow natural convection driers and cottage scale processing for rural 0.000 20.000 0.864
development

Rs. Lakh

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34 R&D Activities Focused at Rural Development (RSP4003) 0.000 0.000 39.681

Laboratory: CSIR-NIIST 1925.487 1816.992 1537.244 1409.507

Total of Kerala 1925.487 28661.103 1537.244 1409.507

State / U.T. : Madya Pradesh

Laboratory: CSIR-AMPRI

1 Molecules to Materials to Devices (M2D) 32.553 10.128 9.078 12.590
2 Novel Energy Effective Metallic Materials for Automotive and General Engineering Application 209.460 192.504 156.070 177.464
(LWM)
3 Development of Novel CSIR Technologies for Manufacturing Tailored and Patient-Specific 11.105 5.848 8.466 7.624
Bioceramic Implants and Biomedical Devices at Affordable Cost (BIOCERAM)
4 Advanced ceramics materials and components for energy and structural application 5.604 5.981 1.636 5.643
5 Design and Development of Thermo Responsive & Magnetic Shape Memory Materials and 171.847 91.931 207.002 82.980
Devices for Engineering Applications (TR&MSMM)
6 Clean Water: Sustainable Options (Clean Water) 0.000 4.914 3.646 3.650

7 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 7.895 2.286 0.000
8 Sisal- potentials for Rural Development & Green Technology 0.000 20.005 1.614
9 R&D Activities Focused at Rural Development (RSP4014) 0.000 0.000 28.595 23.187

Laboratory: CSIR-AMPRI 438.465 333.597 416.106 313.138

Total of Madya Pradesh 438.465 28994.700 416.106 313.138

State / U.T. : Maharashtra

Laboratory: CSIR-NCL

1 New Approaches Towards Understanding of Disease Dynamics and to Accelerate Drug Discovery (UNDO) 36.450 19.440 29.400 31.400

2 Emerging and re-emerging challenges in infectious diseases: Systems based drug design for infectious diseases (SPlenDID) 7.180 4.724 6.300 5.300

3 Bioprospection of plant resources and other natural products (BioprosPR) 6.240 7.080 7.423 11.400

Rs. Lakh

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4 Genomics of Medicinal Plants and Agronomically Important Traits (PlaGen) 13.960 10.390 14.500 13.500

5 Plant Diversity: Studying adaptation biology and understanding/exploiting medicinally important plants for useful bioactives (SIMPLE) 143.760 38.360 51.280 50.780

6 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 29.130 19.960 27.960 24.930

7 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 52.790 29.130 18.540 18.540

8 Host Interactome analysis: Understanding the Role of Host molecules in Parasitic Infection (HOPE) 5.420 6.148 10.820 5.550

9 Neurodegenerative diseases: Causes and Corrections (miND) 36.094 20.625 32.600 33.100

10 Plant-Microbe and Soil Interactions (PMSI) 44.606 48.075 72.000 73.810

11 Man as a Superorganism: Understanding the Human Microbiome (HUM) 83.955 39.610 58.380 43.320

12 Centre for BIOtherapeutic Molecule DISCOVERY (BIODISCOVERY) 57.090 74.200 45.900 48.600

13 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 17.500 27.160 23.968 23.900

14 Genome Dynamics in cellular organization, differentiation and enantiostasis (GenCODE) 45.750 55.500 64.994 46.500

15 CSIR-NCL-IGIB Joint Research Initiative: Interfacing Chemistry and Biology (CSIR-NCL-IGIB-JRI) 161.400 137.655 171.021 167.000

16 Towards Understanding skin Cell Homeostasis (TOUCH) 30.259 43.169 46.949 37.017

17 Clean Coal Technology (TapCoal) 114.642 136.827 86.200 91.190

18 Zero Emission Research Initiative for Solid Wastes from Leather (ZERIS) 15.605 11.890 16.036 19.500

19 Membrane & Adsorbent Technology Platform for Effective Separation of Gases and Liquids (MATES) 8.395 7.665 6.320 6.570

20 Biocatalysts for Industrial Applications & Greener Organic Synthesis (BIAGOS) 82.732 68.941 69.500 72.100

21 Inherently Safer Practices for Industrial Risk Reduction (INSPIRE) 12.100 4.754 6.227 6.320

22 Organic reactions in generating innovative and natural scaffolds (ORIGIN) 234.707 320.449 501.763 185.500

23 Non-Infringing chemistry and engineering for pharmaceuticals (NICE-P) 16.960 18.135 30.448 28.190

24 Metabolic profiling of human body fluids by MS and NMR (CMET) 28.330 15.877 17.230 18.240

25 Screening molecules in lead exploration (SMiLE) 24.760 29.140 23.116 22.080

26 Development of Sustainable Processes for Edible Oils with Health Benefits from Traditional and New Resources (PEOPLE HOPE) 54.200 13.633 16.707 15.980

27 Development of Sustainable Waste Management Technologies for Chemical and Allied Industries (SETCA) 55.190 43.722 30.660 19.320

28 Energy Efficient Technologies (E2++) 27.620 22.122 23.630 28.830

29 Catalysts for Sustainable Energy (ECat) 102.872 29.072 37.810 39.310

30 Research Initiative for Low Emissions (RILE) 7.100 2.088 3.000 3.000

31 Hydrogen Energy: Overcoming materials challenges in PEMFC towards generation, storage and conversion of hydrogen (HYDEN) 211.379 149.640 219.982 231.300

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

32 Innovate, develop and up-scale modular, agile, intensified and continuous processes and plants (Indus MAGIC) 640.700 746.564 809.425 517.500

(Indus MAGIC)

33 Catalysts for Speciality Chemicals (CSC) 109.850 114.236 126.742 77.000

34 Encapsulated Microorganisms for Environmental Protection (EMEP) 58.858 45.680 46.460 42.960
35 Creating intellectual property and capabilities for the development of improved security features 63.648 87.210 66.540 58.480
and substrates for the Indian currency note (FUTURE)
36 A Multi-Scale Simulation and Modeling Approach to Designing Smart Functional Materials for use 407.150 203.567 167.283
154.867
in Energy, Electrochemistry and Bio-mimetics (MSM)
37 Natural Products as Affordable Healthcare Agents (NaPAHA) 187.665 128.693 142.856 146.300
38 Development of functional foods and their formulations for potential health benefits of common 165.220 61.270 73.922 69.440
man (FUNHEALTH)
39 Molecules to Materials to Devices (M2D) 194.250 224.305 218.600 254.750
40 Affordable Cancer Therapeutics (ACT) 17.911 25.244 24.876 25.848
41 Advance Drug Delivery System (ADD) 77.229 48.378 66.274 68.604
42 Centre for Surface and Interface Science Research (CSISR) 112.300 14.574 24.362 16.000
43 Nuclear Magnetic Resonance Centre for Advanced Research (NMRCAR) 106.092 64.925 88.808 45.379
44 National Repository of Molecules (NORMS) 244.619 209.929 312.884 184.000
45 Up gradation of Facilities/National Repository of Molecules and National Collection of Industrial 74.675 19.870 29.944 16.000
Micro Organisms Resource Centre (NCIMRC)
46 Clean Water: Sustainable Options (Clean Water) 0.000 34.350 40.844 30.770
47 Open Source Drug Discovery programme (OSDD) 31.900 44.200 10.000
48 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 0.000 9.972 2.930
49 Novel Approaches for Solar energy conversion - a TAPSUN project 151.850 92.342 97.371 72.900
50 Innovative solution for solar energy storage under CSIR - a TAPSUN project 220.480 91.284 90.918 58.640
51 Non Invasive Pulse Monitoring Device (NIPMD) 20.960 0.000 0.000
52 R&D Activities Focused at Rural Development (RSP4022) 0.000 0.000 71.560

Laboratory: CSIR-NCL 4653.532 3711.802 4290.306 3264.445

Laboratory: CSIR-NEERI

1 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 25.073 34.130 29.180 27.020
2 Clean Coal Technology (TapCoal) 4.720 3.061 3.880 6.110
3 Waste to Wealth - Waste plastics (W2W) 4.452 3.559 3.243 2.842
4 Engineering of Disaster Mitigation and Health Monitoring for Safe and Smart Built Environment 17.270 25.540 10.089 9.290
(EDMISSIBLE)
Rs. Lakh

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5 Centre of Excellence: Waste Utilization and Management (WUM) 481.178 456.774 314.911 237.400
6 National Clean Air Mission (NCAM) 496.288 184.073 150.851 182.440
7 Clean Water: Sustainable Options (Clean Water) 72.514 183.859 198.970 240.160
8 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 7.139 1.668 0.000
9 Vulnerability assessment and development of adaption strategies for climate change impact 0.000 0.000 42.650 29.050
with special reference to coasts and island ecosystems of India (VACCIN)
10 Innovative solution for solar energy storage under CSIR - a TAPSUN project 118.427 64.500 88.282 41.580
11 Very High Power Microwave Tubes : Design and Development Capabilities (MTDDC) 21.161 41.540 29.120 25.590
12 Measurement for Innovation in Science & Technology (MIST) 24.749 16.550 64.301 13.400
13 Probing the Changing Atmosphere and its Impacts in Indo-Gangetic Plains (IGP) and Himalayan 16.335 9.730 23.168 23.668
Regions (AIM-IGPHim)
14 Sisal- potentials for Rural Development & Green Technology 0.000 4.500 0.000
15 Dissemination and showcasing of CSIR rural Technologies 0.000 7.500 0.000
16 Dissemination, Training and Demonstration of appropriate rural housing technologies 0.000 3.500 0.000
17 R&D Activities Focused at Rural Development (RSP4017) 0.000 0.000 33.299
18 R&D Activities Focused at Rural Development (RSP4018) 0.000 0.000 30.500
19 R&D Activities Focused at Rural Development (RSP4019) 0.000 0.000 34.200

Laboratory: CSIR-NEERI 1289.305 1040.484 1056.645 838.550

Total of Maharashtra 5942.837 33746.986 5346.951 4102.995

State / U.T. : Odisha

Laboratory: CSIR-IMMT

1 Multifunctional electrodes and Electrolytes for Future Technologies (MUTLIFUN) 37.693 24.062 63.834 18.350
2 Potassic (K) fertilizer Technology to Empower the Nation (K-TEN) 43.808 39.625 52.317 61.250
3 Development of Sustainable Waste Management Technologies for Chemical and Allied 13.661 8.706 7.757 6.870

Industries (SETCA)

4 Biomass to Energy (BioEn) 16.944 9.694 12.450 7.192

5 Environmental Research Initiative for Paper and Process Industry (ERIPP) 24.228 6.112 7.143 10.800

6 Sustainable Technologies for the Utilization of Rare Earths (SURE) 60.338 29.463 21.907 37.254

7 Speciality Materials based on Engineered Clays (SPECS) 26.397 12.314 15.298 23.900

8 Novel Energy Effective Metallic Materials for Automotive and General Engineering Application (LWM) 59.619 47.753 12.725 10.940

9 Advanced ceramics materials and components for energy and structural application 22.508 4.199 7.042 8.685

Rs. Lakh

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10 Development of Zero Waste Technology for Processing and Utilization of Thermal Coal (ZWT- 11.863 12.034 17.015 21.840 CUP)

11 Robotics and Micro Machines (ROuM) 47.205 25.759 14.158 17.430

12 Minerals to Metals for Sustainable Planet (MINMET) 322.060 162.383 315.684 773.418

13 Processing of natural gemstones for aesthetic improvement and value addition (PNG) 752.990 117.294 128.720 183.480

14 Clean Water: Sustainable Options (Clean Water) 0.000 5.145 7.326 7.830

15 Centre for Special Materials (CSM) 289.381 184.882 120.556 163.000

16 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 0.000 6.966 2.930

17 Innovative solution for solar energy storage under CSIR - a TAPSUN project 34.826 15.781 17.811 15.000

18 Very High Power Microwave Tubes : Design and Development Capabilities (MTDDC) 61.677 35.028 14.350 21.830

19 Probing the Changing Atmosphere and its Impacts in Indo-Gangetic Plains (IGP) and Himalayan Regions (AIM-IGPHim) 12.148 9.199 11.690 13.192

20 Development of techniques and demonstration for improving rural tanning 0.000 8.680 0.000

21 R&D Activities Focused at Rural Development (RSP4020) 0.000 0.000 50.912

Laboratory: CSIR-IMMT 1837.345 758.113 905.663 1405.191

Total of Odisha 1837.345 34505.099 905.663 1405.191

State / U.T. : Rajasthan

Laboratory: CSIR-CEERI

1 Effective Application of Community Health Efforts through New Age, IT Based Modes (EACH-IT) 0.000 9.450 14.050 10.600

2 Clean Coal Technology (TapCoal) 16.386 16.990 7.370 7.370

3 Creating intellectual property and capabilities for the development of improved security features and substrates for the Indian currency note (FUTURE) 53.973 18.435 55.282 15.050

4 Engineering of Disaster Mitigation and Health Monitoring for Safe and Smart Built Environment (EDMISSIBLE) 101.535 53.850 54.450 52.720

5 Development of Novel CSIR Technologies for Manufacturing Tailored and Patient-Specific Bioceramic Implants and Biomedical Devices at Affordable Cost (BIOCERAM) 8.819 5.448 7.163 7.640

6 Technology Solutions for Micro Air Vehicle Development (MAT) 20.867 37.665 39.927 43.820

7 Innovative Technologies for Health Assessment and Damage Mitigation of Structures (I-HEAL) 44.000 24.475 21.091 20.400

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

8 Robotics and Micro Machines (ROuM) 12.040 15.428 19.510 18.250

9 Autonomous Underwater Robotics (UnWaR) 82.627 48.160 43.500 34.500

10 Clean Water: Sustainable Options (Clean Water) 0.000 7.830 6.130 4.550

11 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 6.906 2.851 0.000

12 Efficient silicon photovoltaics with smart electronics and lighting systems- a TAPSUN Project 523.423 174.641 130.172 137.750

13 Very High Power Microwave Tubes : Design and Development Capabilities (MTDDC) 1193.424 822.156 770.166 419.160

14 Research Initiative on Nano Devices and Nano-Sensors (R-Nano) 412.499 201.915 496.853 277.000

15 Advanced Instrumentation Solutions for Health Care and Agro-based Applications (ASHA) 22.523 19.728 7.251 9.700

16 Development of Advanced Materials for Next-Generation Energy-Efficient Devices (D-NEED) 103.200 40.500 115.833 45.600

17 Advanced Quantum Research and Innovation with Ultra Small Systems (AQuARIUS) 0.000 160.000 0.000

18 Advanced Microsensors and Microsystems : Design, Development and Applications (MicroSensys) 514.900 275.750 3 53.478 338.000

19 Advanced Facility for Nano Electronics (AFNE) 29.625 32.000 25.369 39.000

Laboratory: CSIR-CEERI 3139.843 1971.327 2170.446 1481.110

Total of Rajasthan 3139.843 36476.426 2170.446 1481.110

State / U.T. : Tamil Nadu

Laboratory: CSIR-CECRI

1 Multifunctional electrodes and Electrolytes for Future Technologies (MUTLIFUN) 1468.597 910.535 2115.093 520.262

2 Zero Emission Research Initiative for Solid Wastes from Leather (ZERIS) 13.885 14.453 19.300 19.100

3 Potassic (K) fertilizer Technology to Empower the Nation (K-TEN) 26.550 39.600 30.000 26.000

4 Development of Sustainable Waste Management Technologies for Chemical and Allied Industries (SETCA) 48.430 51.982 43.100 26.990

5 Intelligent Coatings (IntelCoat) 674.417 231.206 231.400 210.500

6 Advanced Carbon Materials (AdCarbMate) 29.199 38.014 27.820 29.320

7 Hydrogen Energy: Overcoming materials challenges in PEMFC towards generation, separation, storage and conversion of hydrogen (HYDEN) 110.863 148.225 172.880 136.800

8 A Multi-Scale Simulation and Modeling Approach to Designing Smart Functional Materials for use in Energy, Electrochemistry and Bio-mimetics (MSM) 19.875 23.031 18.750 19.189

9 Sustainable Technologies for the Utilization of Rare Earths (SURE) 47.189 38.188 45.808 28.558

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

10 Molecules to Materials to Devices (M2D) 313.065 242.102 83.873 60.820

11 Innovative Technologies for Health Assessment and Damage Mitigation of Structures (I-HEAL) 23.700 21.675 21.200 21.700

12 Clean Water: Sustainable Options (Clean Water) 0.000 4.750 6.250 5.250

13 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 5.125 2.328 0.000

14 Novel Approaches for Solar energy conversion - a TAPSUN project 68.745 56.200 48.350 33.400

15 Innovative solution for solar energy storage under CSIR - a TAPSUN project 634.327 1049.255 240.035 61.150

16 Very High Power Microwave Tubes : Design and Development Capabilities (MTDDC) 27.410 6.750 8.490 6.690

17 Development of Advanced Materials for Next-Generation Energy-Efficient Devices (D-NEED) 7.500 9.229 12.500 12.500

18 Strategic Rural Income enhancements by Medicinal & Industrial plants based technologies 0.000 11.500 0.000

19 R&D Activities Focused at Rural Development (RSP4011) 0.000 0.000 1.267

Laboratory: CSIR-CECRI 3518.878 2899.023 3126.115 1218.229

Laboratory: CSIR-CLRI

1 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 29.312 13.177 18.590 22.730

2 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 18.709 16.010 21.264 20.760

3 Centre for BIOtherapeutic Molecule DISCOVERY (BIODISCOVERY) 3.550 2.080 5.813 6.600

4 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 39.925 3.130 3.219 4.920

5 Zero Emission Research Initiative for Solid Wastes from Leather (ZERIS) 200.378 249.208 353.624 274.000

6 Membrane & Adsorbent Technology Platform for Effective Separation of Gases and Liquids (MATES) 10.303 9.749 9.016 9.870

7 Development of Sustainable Waste Management Technologies for Chemical and Allied Industries (SETCA) 27.264 19.312 19.236 16.690

8 Biomass to Energy (BioEn) 18.511 14.523 12.901 14.695

9 Innovate, develop and up-scale modular, agile, intensified and continuous processes and plants (Indus MAGIC) 17.210 14.845 23.364 20.500

10 Encapsulated Microorganisms for Environmental Protection (EMEP) 26.419 23.548 14.809 18.320

11 A Multi-Scale Simulation and Modeling Approach to Designing Smart Functional Materials for use in Energy, Electrochemistry and Bio-mimetics (MSM) 4.234 21.070 3.167 3.714

12 Environmental Research Initiative for Paper and Process Industry (ERIPP) 18.250 13.845 15.042 13.300

13 Sustainable Technologies for the Utilization of Rare Earths (SURE) 5.502 11.564 4.890 6.892

14 Molecules to Materials to Devices (M2D) 23.381 15.438 12.013 11.460

15 Science and Technology Revolution in Leather with a Green Touch (STRAIT) 1270.978 1024.402 1188.840 1121.600

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

16 Research Initiative for Waterless Tanning (RWT) 44.504 41.340 159.672 61.200
17 Advance Drug Delivery System (ADD) 25.384 15.333 21.504 22.924
18 Design Innovation for Smart Material Transformation Yeanning Leather Life Style Products 114.240 41.026 94.600 43.640
(D'STYLE)
19 Development and Application of Technologies for Sustainable Transportation (SUSTRANS) 19.775 14.617 14.811 9.875
20 Open Source Drug Discovery programme (OSDD) 12.428 2.994 1.162
21 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 0.000 9.176 2.930
22 Novel Approaches for Solar energy conversion - a TAPSUN project 57.425 39.500 48.073 33.720
23 Efficient silicon photovoltaics with smart electronics and lighting systems- a TAPSUN Project 31.697 39.225 26.138 28.850
24 Development of novel leather products based on ethnic designs 10.000 0.000 0.000
25 R&D Activities Focused at Rural Development (RSP4005) 0.000 0.000 23.327
26 R&D project pertaining to Rural Development (RSP) 0.000 17.000 0.000

Laboratory: CSIR-CLRI 2029.377 1662.936 2104.252 1769.190

Laboratory: CSIR-MDCX

1 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 6.906 2.826 0.000

Laboratory: CSIR-MDCX 0.000 6.906 2.826 0.000

Laboratory: CSIR-SERC

1 Potassic (K) fertilizer Technology to Empower the Nation (K-TEN) 4.935 6.070 6.260 5.380
2 Innovative Technologies for Health Assessment and Damage Mitigation of Structures (I-HEAL) 394.035 401.770 449.507 211.700
3 Engineering Sustainable Materials and Structures Action Plan I: Sustainability Through Eco- 588.579 690.894 659.240 507.000
Balancing (SUSMAS)
4 Engineering Sustainable Materials and Structures Action Plan II: Sustainability Through Nano- 590.866 608.257 554.964 367.000
Technology and Bio-Mimetics (eNano-Tics)
5 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 7.321 2.850 0.000
6 Innovation Complexes 2145.041 21.702 0.317
7 R&D Activities Focused at Rural Development (RSP4026) 0.000 0.000 47.000

Rs. Lakh

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Laboratory: CSIR-SERC 3723.455 1736.014 1720.137 1091.080

Total of Tamil Nadu 9271.709 42781.305 6953.332 4078.499

State / U.T. : Telengana

Laboratory: CSIR-CCMB

1 Factors Governing competent gamete production and reproductive dysfunction (PROGRAM) 53.750 53.580 80.000 87.900
2 Towards holistic understanding of Complex Diseases: Unraveling the Threads of Complex 60.300 62.750 78.240 49.800
Diseases (THUNDER)
3 New Approaches Towards Understanding of Disease Dynamics and to Accelerate Drug 190.300 187.622 388.592 120.500
Discovery (UNDO)
4 Emerging and re-emerging challenges in infectious diseases: Systems based drug design for 46.500 29.050 40.900 49.400
infectious diseases (SPlenDID)
5 Genomics of Medicinal Plants and Agronomically Important Traits (PIaGen) 4.440 4.895 5.170 6.600
6 Medicinal Chemistry for stem cell biology and regenerative medicine (MEDCHEM) 233.000 87.150 120.500 124.000
7 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 47.345 45.400 59.350 75.350
8 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 79.815 77.130 86.990 91.990
9 Understanding supra molecular ensembles and machines (UNSEEN) 51.500 43.300 49.068 51.000
10 Host Interactome analysis: Understanding the Role of Host molecules in Parasitic Infection 30.140 29.798 50.862 30.780
(HOPE)
11 Neurodegenerative diseases: Causes and Corrections (miND) 275.543 133.920 192.932 170.700
12 Plant-Microbe and Soil Interactions (PMSI) 157.621 115.550 143.050 156.390
13 Epigenetics in Health and Disease (EpiHeD) 510.738 425.840 854.131 419.635
14 Centre for BIOtherapeutic Molecule DISCOVERY (BIODISCOVERY) 42.250 26.300 23.404 30.600
15 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 193.450 186.240 213.147 187.600

16 Centre for Cardiovascular and Metabolic Disease Research (CARDIOMED) 282.000 139.175 193.744 120.480
 17 Genome Dynamics in cellular organization, differentiation and enantiostasis (GenCODE) 26.000 29.625 47.915 44.000
 18 Conservation of endangered animals of India: Molecular Genetics and Reproduction Approaches (ConservE) 174.400 155.696 176.000 196.000
 19 Biology of Ageing and Human Health (BioAGE) 1069.500 595.890 709.116 548.500
 20 Plant Breeding, Genomics and Biotechnology (PLOMICS) 200.510 204.040 245.113 245.060
 21 Towards Understanding skin Cell Homeostasis (TOUCH) 13.904 16.106 22.808 22.808
 22 Natural Products as Affordable Healthcare Agents (NaPAHA) 19.400 8.100 11.500 11.800
 Rs. Lakh

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23 Development of Novel CSIR Technologies for Manufacturing Tailored and Patient-Specific Bioceramic Implants and Biomedical Devices at Affordable Cost (BIOCERAM) 10.292 11.132 13.739 16.309
 24 Multi-agent Therapy for Cancer: A System Biology Approach 0.000 10.000 0.000
 25 Inter-agency Project 0.000 1.104 0.000
 26 Project on Conservation of Endangered Species 50.000 2.396 0.000
 27 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 0.000 9.030 2.930
 28 Innovation Complexes 783.345 0.000 0.000
 29 Indian Aquatic Ecosystems: Impact of Deoxygenation, Eutrophication and Acidification (INDIAS IDEA) 13.240 15.625 38.645 22.510
 30 R&D Activities Focused at Rural Development (RSP4009) 0.000 0.000 49.500
 31 R&D Activities Focused at Rural Development (RSP4010) 0.000 0.000 27.800

Laboratory: CSIR-CCMB 4619.283 2697.414 3931.246 2882.642

Laboratory: CSIR-IICT

1 Towards holistic understanding of Complex Diseases: Unraveling the Threads of Complex Diseases (THUNDER) 33.550 12.080 15.600 18.100
 2 New Approaches Towards Understanding of Disease Dynamics and to Accelerate Drug Discovery (UNDO) 15.900 19.540 102.600 27.600
 3 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 89.900 8.680 11.040 11.040
 4 Neurodegenerative diseases: Causes and Corrections (miND) 57.600 25.615 45.900 39.100
 5 Therapeutics of Chronic Obstructive Pulmonary Disease (COPD) and Related Respiratory Disorders (TREAT) 43.500 32.950 47.500 48.200
 6 Epigenetics in Health and Disease (EpiHeD) 46.473 26.529 38.945 37.115
 7 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 72.160 25.492 32.314 32.820
 8 Genome Dynamics in cellular organization, differentiation and enantiostasis (GenCODE) 55.500 49.875 85.500 75.500
 9 Multifunctional electrodes and Electrolytes for Future Technologies (MUTLIFUN) 35.480 11.713 0.000
 10 Membrane & Adsorbent Technology Platform for Effective Separation of Gases and Liquids (MATES) 68.590 50.160 35.030 30.680
 11 Biocatalysts for Industrial Applications & Greener Organic Synthesis (BIAGOS) 62.247 70.200 56.800 48.800
 12 Inherently Safer Practices for Industrial Risk Reduction (INSPIRE) 85.308 84.450 55.000 56.870
 13 Organic reactions in generating innovative and natural scaffolds (ORIGIN) 691.620 854.193 950.950 490.850
 14 Non-Infringing chemistry and engineering for pharmaceuticals (NICE-P) 46.705 41.739 45.240 43.540
 15 Metabolic profiling of human body fluids by MS and NMR (CMET) 77.170 136.647 118.530 118.550
 16 Screening molecules in lead exploration (SMiLE) 402.650 257.263 822.190 293.360
 Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

17 Development of Sustainable Processes for Edible Oils with Health Benefits from Traditional and New Resources (PEOPLE HOPE) 278.708 141.956 185.342 181.072
 18 Development of Sustainable Waste Management Technologies for Chemical and Allied Industries (SETCA) 90.160 103.497 123.950 72.250
 19 Intelligent Coatings (IntelCoat) 529.490 380.889 257.566 220.610
 20 Biomass to Energy (BioEn) 152.551 119.362 100.206 56.626
 21 New generation lubricants and additives (GenLube) 20.218 6.876 6.475 6.475
 22 Innovate, develop and up-scale modular, agile, intensified and continuous processes and plants (Indus MAGIC) 204.750 180.400 193.000 130.000
 23 Catalysts for Speciality Chemicals (CSC) 64.110 40.980 31.600 31.800
 24 Natural Products as Affordable Healthcare Agents (NaPAHA) 28.050 30.900 30.100 28.100
 25 Sustainable Technologies for the Utilization of Rare Earths (SURE) 48.765 42.040 25.704 15.204

26 Development of functional foods and their formulations for potential health benefits of common man (FUNHEALTH) 10.900 12.075 12.500 10.100

27 Molecules to Materials to Devices (M2D) 85.499 27.795 101.980 28.950

28 Speciality Materials based on Engineered Clays (SPECS) 16.850 5.857 9.060 6.830

29 Development of Innovative Technologies for Strategic Fluorochemicals (DITSF) 146.750 197.900 104.000 113.800

30 Development of Novel Vaccine Adjuvants (DENOVA) 134.397 114.293 236.440 102.390

31 Affordable Cancer Therapeutics (ACT) 198.830 203.570 180.836 120.850

32 Advance Drug Delivery System (ADD) 235.102 63.252 281.251 91.231

33 Augmentation of Analytical Research Facilities (AARF) 0.000 0.000 59.260 59.260

34 National Repository of Molecules (NORMS) 36.535 162.312 0.000

35 Centre of Excellence: Waste Utilization and Management (WUM) 14.035 7.535 7.455 6.455

36 Open Source Drug Discovery programme (OSDD) 41.880 87.000 25.127

37 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 6.906 2.850 0.000

38 Integrated Analysis for Impact, Mitigation and Sustainability (IAIMS): Regional Climate Modelling at Decade Scale 16.000 0.000 0.000

39 Novel Approaches for Solar energy conversion - a TAPSUN project 262.705 140.300 164.212 80.650

40 Efficient silicon photovoltaics with smart electronics and lighting systems- a TAPSUN Project 72.902 53.100 27.750 19.298

41 Innovative solution for solar energy storage under CSIR - a TAPSUN project 205.818 68.792 135.470 53.660

42 Tea farm mechanization 0.000 10.000 0.000

43 Tea advisory services for production of quality tea 0.000 10.000 0.000

44 R&D Activities Focused at Rural Development (RSP4027) 0.000 0.000 99.200

Rs. Lakh

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Laboratory: CSIR-IICT 4779.359 3924.713 4864.474 2807.736

Laboratory: CSIR-NGRI

1 Potassic (K) fertilizer Technology to Empower the Nation (K-TEN) 6.195 14.025 17.050 0.500

2 Development of underground coal gasification technology in India (CoalGasUrja) 8.525 19.748 11.430 11.430

3 Development of suitable design methodology for extraction of coal at greater depths (>300 m) for Indian geomining conditions (DeepCoal) 9.300 27.064 23.704 12.400

4 Clean Water: Sustainable Options (Clean Water) 0.000 5.010 6.830 4.270

5 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 6.906 2.850 0.000

6 Advanced Research in Engineering & Earth Sciences: Data intensive modelling and crowd sourcing approach (ARIEES) 15.650 6.100 8.300 8.300

7 Geodynamic and Earthquake generating processes in NE India and Andaman Subduction Zone (GENIAS) 208.150 186.153 203.250 171.750

8 Geological processes in the Indian Ocean - Understanding the input fluxes, sinks and Paleocyanography (GEOSINKS) 3.000 4.280 13.100 7.400

9 Geo-scientific investigations for deciphering the Earth's internal processes and energy resources (GEOSCAPE) 124.405 153.280 181.560 149.060

10 Indian Aquatic Ecosystems: Impact of Deoxygenation, Eutrophication and Acidification (INDIAS IDEA) 15.840 20.020 37.700 21.260

11 Hazard due to Earthquakes and Tsunami in the Indian region (HEART) 176.982 191.652 218.822 177.554

12 India Deep Earth Exploration Programme (INDEX) 440.195 312.663 362.750 323.750

13 Shallow subsurface imaging of India for resource exploration (SHORE) 889.601 520.050 597.215 471.000

14 R&D Activities Focused at Rural Development (RSP4012) 0.000 0.000 95.000

Laboratory: CSIR-NGRI 1897.843 1466.951 1779.561 1358.674

Total of Telengana 11296.485 50870.383 10575.281 7049.052

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

State / U.T. : Uttar Pradesh

Laboratory: CSIR-CDRI

1 Factors Governing competent gamete production and reproductive dysfunction (PROGRAM) 327.370 228.820 296.942 263.400
2 Towards holistic understanding of Complex Diseases: Unraveling the Threads of Complex Diseases (THUNDER) 710.550 515.680 454.298 442.000
3 New Approaches Towards Understanding of Disease Dynamics and to Accelerate Drug Discovery (UNDO) 417.870 412.240 342.000 340.500
4 Emerging and re-emerging challenges in infectious diseases: Systems based drug design for infectious diseases (SPlenDID) 600.316 253.320 546.299 294.400
5 Bioprospection of plant resources and other natural products (BioprosPR) 117.750 119.353 148.500 180.700
6 Medicinal Chemistry for stem cell biology and regenerative medicine (MEDCHEM) 57.650 25.679 36.000 20.200
7 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 88.623 62.918 75.910 62.910
8 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 58.220 20.520 26.020 23.320
9 Understanding supra molecular ensembles and machines (UNSEEN) 140.650 82.904 137.550 122.000
10 Host Interactome analysis: Understanding the Role of Host molecules in Parasitic Infection (HOPE) 329.890 160.050 340.700 280.400
11 Neurodegenerative diseases: Causes and Corrections (miND) 83.850 26.284 28.100 22.300
12 Epigenetics in Health and Disease (EpiHeD) 103.376 46.154 56.547 52.200
13 Man as a Superorganism: Understanding the Human Microbiome (HUM) 38.715 15.494 22.049 23.120
14 Centre for BIOtherapeutic Molecule DISCOVERY (BIODISCOVERY) 100.751 120.200 57.500 63.500
15 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 24.850 20.948 32.101 23.600
16 Genome Dynamics in cellular organization, differentiation and enantiostasis (GenCODE) 21.250 22.910 36.750 23.250
17 Anabolic Skeletal Targets in Health and Illness (ASTHI) 469.888 328.200 292.497 307.000
18 Setting up of World Class Drug Research Institute 0.000 4000.000 1045.473
19 Advance Drug Delivery System (ADD) 38.699 11.544 14.253 14.754
20 Development of Novel CSIR Technologies for Manufacturing Tailored and Patient-Specific Bioceramic Implants and Biomedical Devices at Affordable Cost (BIOCERAM) 70.969 15.669 25.309 20.674
21 Open Source Drug Discovery programme (OSDD) 46.336 42.220 9.500
22 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 5.645 2.322 0.000
23 Measurement for Innovation in Science & Technology (MIST) 24.000 16.400 15.001 10.000

Laboratory: CSIR-CDRI 3877.217 6549.829 4039.298 2590.228

Rs. Lakh

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Laboratory: CSIR-CIMAP

1 New initiatives to boost agriculture productivity through maximizing pre- and post-harvest yields (AGROPATHY) 46.794 35.020 36.759 19.920
2 Bioprospection of plant resources and other natural products (BioprosPR) 30.534 31.959 38.846 49.400
3 Genomics of Medicinal Plants and Agronomically Important Traits (PlaGen) 42.522 28.380 43.121 36.680
4 Plant Diversity: Studying adaptation biology and understanding/exploiting medicinally important plants for useful bioactives (SIMPLE) 104.710 65.580 57.760 71.260
5 Introduction, domestication, improvement and cultivation of economically important plants (AGTEC) 116.879 84.103 125.625 95.469
6 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 30.335 22.910 26.560 26.590
7 Plant-Microbe and Soil Interactions (PMSI) 72.907 64.900 42.642 53.900
8 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 33.656 26.687 15.400 15.300
9 S&T interventions to combat malnutrition in women and children (HCP07) 10.125 12.540 14.634 3.707
10 Chemical Biology of Ocimum and other Aromatic Plants (ChemBio) 662.277 894.894 1021.686 520.055
11 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 0.000 9.832 2.930
12 Integrated Analysis for Impact, Mitigation and Sustainability (IAIMS): Regional Climate Modelling at Decade Scale 7.500 0.000 0.000
13 Tea advisory services for production of quality tea 0.000 20.035 0.000
14 R&D Activities Focused at Rural Development (RSP4001) 0.000 0.000 45.549 50.966
15 R&D Activities Focused at Rural Development (RSP4004) 0.000 0.000 83.048

Laboratory: CSIR-CIMAP 1158.239 1287.008 1561.462 946.177

Laboratory: CSIR-HRDC

1 Analysis and Monitoring of patent applications in International Patent Office for preventing misappropriation of Indias Traditional Knowledge (TKDL) 208.684 121.517 131.860
2 Traditional Knowledge Digital Library 2020 (Enhanced TKDL-2020) 197.040 242.450 197.006

Laboratory: CSIR-HRDC 405.725 363.967 328.866

Rs. Lakh

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Laboratory: CSIR-IITR

1 New Approaches Towards Understanding of Disease Dynamics and to Accelerate Drug Discovery (UNDO) 105.900 69.040 99.200 104.200
2 Bioprospection of plant resources and other natural products (BioprosPR) 6.700 11.226 14.400 14.400
3 Medicinal Chemistry for stem cell biology and regenerative medicine (MEDCHEM) 15.125 16.632 20.650 10.150
4 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 352.124 324.070 415.380 415.970
5 Nanomaterials: Applications and Impact on Safety, Health and Environment (NanoSHE) 328.320 343.412 461.321 441.320
6 Neurodegenerative diseases: Causes and Corrections (miND) 73.250 88.151 105.500 105.500
7 Epigenetics in Health and Disease (EpiHeD) 18.450 19.300 26.250 19.000
8 Centre for BIOtherapeutic Molecule DISCOVERY (BIODISCOVERY) 19.300 7.251 12.800 10.400
9 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 13.370 25.321 19.970 19.770
10 Towards Understanding skin Cell Homeostasis (TOUCH) 46.163 45.375 54.125 54.125
11 Advance Drug Delivery System (ADD) 3.190 2.719 4.000 4.000
12 Clean Water: Sustainable Options (Clean Water) 0.000 5.650 6.150 6.150
13 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 0.000 10.120 2.930
14 Measurement for Innovation in Science & Technology (MIST) 59.350 15.450 23.700 6.130

Laboratory: CSIR-IITR 1041.242 973.597 1273.565 1214.045

Laboratory: CSIR-NBRI

1 Bioprospection of plant resources and other natural products (BioprosPR) 88.625 79.150 94.909 125.800
2 Genomics of Medicinal Plants and Agronomically Important Traits (PlaGen) 166.429 180.510 277.371 244.210
3 Plant Diversity: Studying adaptation biology and understanding/exploiting medicinally important plants for useful bioactives (SIMPLE) 284.545 250.255 244.697 233.780
4 Introduction, domestication, improvement and cultivation of economically important plants (AGTEC) 128.621 119.806 82.483 61.214
5 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 58.876 42.699 49.133 57.850
6 Plant-Microbe and Soil Interactions (PMSI) 88.010 74.249 100.499 99.900
7 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 29.900 22.100 23.900 19.500
8 S&T interventions to combat malnutrition in women and children (HCP07) 9.713 27.121 39.064 6.476
9 Root Biology and its correlation to sustainable plant development and soil fertility (RootSF) 1350.900 993.851 1255.064 1149.900
10 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 6.906 2.470 0.000
11 Probing the Changing Atmosphere and its Impacts in Indo-Gangetic Plains (IGP) and Himalayan Regions (AIM-IGPHim) 50.942 21.921 23.300 13.884

Rs. Lakh

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12 R&D Activities Focused at Rural Development (RSP4001) 0.000 0.000 87.300 28.000
13 R&D Activities Focused at Rural Development (RSP4025) 0.000 0.000 100.000
14 Rural Development (RSP94) 0.000 20.000 0.000

Laboratory: CSIR-NBRI 2256.561 1838.568 2380.188 2040.514

Total of Uttar Pradesh 8738.983 61883.352 9583.379 6790.964

State / U.T. : Uttarakhand

Laboratory: CSIR-CBRI

1 Engineering of Disaster Mitigation and Health Monitoring for Safe and Smart Built Environment (EDMISSIBLE) 438.575 281.760 171.465 222.564

2 Development of a technology for optimal extraction of locked-up coal from underground mines using artificial pillars (DeCoalArt) 17.425 17.616 15.495 14.150

3 Robotics and Micro Machines (ROuM) 26.670 17.750 12.008 13.500

4 Innovative Materials and Technologies for Next Generation Green buildings (INMATE-NGGB) 255.500 421.183 188.758 192.649

5 Clean Water: Sustainable Options (Clean Water) 0.000 4.500 3.713 4.350

6 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 7.350 2.328 0.000

7 Advanced Research in Engineering & Earth Sciences: Data intensive modelling and crowd sourcing approach (ARiEES) 10.100 15.900 14.251 16.902

8 Advanced Instrumentation Solutions for Health Care and Agro-based Applications (ASHA) 20.740 10.688 4.450 9.190

9 R&D project pertaining to Rural Development 0.000 20.000 0.000

10 R&D Activities Focused at Rural Development (RSP4002) 0.000 0.000 56.000 37.000

Laboratory: CSIR-CBRI 776.360 791.725 466.141 510.305

Laboratory: CSIR-IIP

1 Centre for BIOtherapeutic Molecule DISCOVERY (BIODISCOVERY) 18.132 18.300 11.756 15.200

2 Clean Coal Technology (TapCoal) 67.685 61.406 15.692 12.520

3 Biocatalysts for Industrial Applications & Greener Organic Synthesis (BIAGOS) 6.153 42.675 7.072 8.150

4 Development of Sustainable Processes for Edible Oils with Health Benefits from Traditional and New Resources (PEOPLE HOPE) 13.941 12.127 13.164 8.810

5 Energy Efficient Technologies (E2++) 174.497 130.850 107.949 90.510

Rs. Lakh

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6 Biomass to Energy (BioEn) 128.253 76.940 41.416 35.729

7 Catalysts for Sustainable Energy (ECat) 530.410 249.571 223.139 225.450

8 New generation lubricants and additives (GenLube) 280.256 160.869 78.118 85.520

9 Research Initiative for Low Emissions (RILE) 219.052 144.081 135.901 165.000

10 Waste to Wealth - Waste plastics (W2W) 110.716 29.441 27.976 44.560

11 Advanced Carbon Materials (AdCarbMate) 27.479 31.608 26.717 31.900

12 Catalysts for Speciality Chemicals (CSC) 174.836 75.529 85.734 88.000

13 A Multi-Scale Simulation and Modeling Approach to Designing Smart Functional Materials for use in Energy, Electrochemistry and Bio-mimetics (MSM) 56.402 11.076 10.254 13.515

14 Natural Products as Affordable Healthcare Agents (NaPAHA) 8.907 17.890 8.239 9.000

15 Sustainable Technologies for the Utilization of Rare Earths (SURE) 44.547 58.771 16.466 27.144

16 Speciality Materials based on Engineered Clays (SPECS) 43.318 12.880 14.540 16.680

17 Centre of Excellence for HRD in Hydrocarbon (TrainAll) 0.000 0.000 492.500 336.745

18 Robotics and Micro Machines (ROuM) 8.259 59.112 9.720 8.460

19 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 6.622 2.758 0.000

20 Novel Approaches for Solar energy conversion - a TAPSUN project 49.570 38.151 0.000

21 R&D Activities Focused at Rural Development (RSP4013) 0.000 0.000 72.359

Laboratory: CSIR-IIP 1962.413 1237.899 1401.470 1222.893

Total of Uttarakhand 2738.773 63912.976 1867.611 1733.198

State / U.T. : West Bengal

Laboratory: CSIR-CGCRI

1 Multifunctional electrodes and Electrolytes for Future Technologies (MUTLIFUN) 27.719 9.544 21.569 11.570

2 Membrane & Adsorbent Technology Platform for Effective Separation of Gases and Liquids (MATES) 22.388 11.510 10.018 9.020

3 Intelligent Coatings (IntelCoat) 24.955 10.542 14.150 9.600

4 Energy Efficient Technologies (E2++) 11.741 16.427 9.608 9.256

5 Speciality Materials based on Engineered Clays (SPECS) 15.775 6.794 7.230 5.990

6 Engineering of Disaster Mitigation and Health Monitoring for Safe and Smart Built Environment (EDMISSIBLE) 49.495 39.368 31.447 24.580

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

7 Development of Novel CSIR Technologies for Manufacturing Tailored and Patient-Specific Bioceramic Implants and Biomedical Devices at Affordable Cost (BIOCERAM) 561.173 235.233 156.442 86.736

8 Advanced ceramics materials and components for energy and structural application 973.144 779.863 688.735 515.350

9 Innovative Technologies for Health Assessment and Damage Mitigation of Structures (I-HEAL) 38.956 23.724 19.474 19.100

10 Robotics and Micro Machines (ROuM) 67.449 14.494 17.621 16.620

11 Leadership in Specialty Glass and Optical Fiber Technologies (GLASSFIB) 1079.843 790.937 726.526 500.600

12 Clean Water: Sustainable Options (Clean Water) 0.000 11.425 11.505 8.350

13 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 7.719 2.707 0.000

14 Efficient silicon photovoltaics with smart electronics and lighting systems- a TAPSUN Project 206.681 93.185 24.133 21.750

15 Innovative solution for solar energy storage under CSIR - a TAPSUN project 97.974 29.577 59.141 45.000

16 Very High Power Microwave Tubes : Design and Development Capabilities (MTDDC) 54.541 53.401 85.381 60.580

17 R&D Activities Focused at Rural Development (RSP4028) 0.000 0.000 11.278 16.000

18 R&D Activities Focused at Rural Development (RSP4029) 0.000 0.000 5.389 15.100

19 R&D Activities Focused at Rural Development (RSP4030) 0.000 0.000 2.476 30.000

20 R&D Activities Focused at Rural Development (RSP4031) 0.000 0.000 9.090 20.000

21 R&D Activities Focused at Rural Development (RSP4032) 0.000 0.000 0.746 4.550

22 R&D Activities Focused at Rural Development (RSP4033) 0.000 0.000 3.890 14.350

Laboratory: CSIR-CGCRI 3231.834 2133.743 1918.555 1444.102

Laboratory: CSIR-CMERI

1 Multifunctional electrodes and Electrolytes for Future Technologies (MUTLIFUN) 8.500 4.513 11.636 8.380

2 Clean Coal Technology (TapCoal) 67.039 51.653 45.318 39.150

3 Novel Energy Effective Metallic Materials for Automotive and General Engineering Application (LWM) 33.461 11.008 14.496 16.040

4 Engineering of Disaster Mitigation and Health Monitoring for Safe and Smart Built Environment (EDMISSIBLE) 9.158 6.866 4.407 6.790

5 Development of Novel CSIR Technologies for Manufacturing Tailored and Patient-Specific Bioceramic Implants and Biomedical Devices at Affordable Cost (BIOCERAM) 10.572 22.930 15.978 21.723

6 Development of a technology for optimal extraction of locked-up coal from underground mines using artificial pillars (DeCoalArt) 24.041 29.884 33.082 36.960

7 Innovative Technologies for Health Assessment and Damage Mitigation of Structures (I-HEAL) 19.626 20.285 9.533 17.500

8 Robotics and Micro Machines (ROuM) 890.044 869.151 872.040 629.728

9 Autonomous Underwater Robotics (UnWaR) 347.641 675.279 799.057 202.500

Rs. Lakh

Sl. No. Title of the Project 2013-14 2014-15 2015-16 2016-17*

10 Intelligent devices and smart actuators (InDeSa) 229.021 172.569 169.136 232.640

11 Development of underground coal gasification technology in India (CoalGasUrja) 14.980 15.324 1.688 6.690

12 Development of suitable design methodology for extraction of coal at greater depths (>300 m) for Indian geomining conditions (DeepCoal) 2.748 2.269 3.862 10.852

13 Clean Water: Sustainable Options (Clean Water) 0.000 9.178 32.124 14.780

14 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 0.000 7.677 2.930

15 Efficient silicon photovoltaics with smart electronics and lighting systems- a TAPSUN Project 180.721 87.529 44.277 45.750

16 Innovative solution for solar energy storage under CSIR - a TAPSUN project 56.932 22.042 15.368 13.750

17 Very High Power Microwave Tubes : Design and Development Capabilities (MTDDC) 14.736 12.352 17.696 23.800

18 Advanced Instrumentation Solutions for Health Care and Agro-based Applications (ASHA) 19.525 8.266 0.000

19 Development of Advanced Materials for Next-Generation Energy-Efficient Devices (D-NEED) 6.500 20.734 27.564 21.200

20 Measurement for Innovation in Science & Technology (MIST) 13.005 3.597 6.274 5.000

21 Sisal- potentials for Rural Development & Green Technology 0.000 5.364 0.000

22 Dissemination and showcasing of CSIR rural Technologies 0.000 3.315 0.000

23 Dissemination, Training and Demonstration of appropriate rural housing technologies 0.000 3.912 0.000

24 Establishment of a Rural centre to carry out epidemiological study of various hereditary disorders and to create facility for their Genetic analysis 0.000 2.331 0.000

25 Development of Electrochemical technologies for drinking water up-gradation in the North East region 0.000 2.056 0.000

26 R&D Activities Focused at Rural Development (RSP4015) 0.000 0.000 20.500 18.500

27 R&D Activities Focused at Rural Development (RSP4016) 0.000 0.000 3.711 30.000

28 Spearhaeding Small Civilian Aircraft Design, Development and Manufacturing 94.000 1.550 0.000

Laboratory: CSIR-CMERI 2042.249 2063.957 2155.424 1404.663

Laboratory: CSIR-IICB

1 Factors Governing competent gamete production and reproductive dysfunction (PROGRAM) 69.393 62.706 87.700 74.300
2 Emerging and re-emerging challenges in infectious diseases: Systems based drug design for infectious diseases (SPlenDID) 11.650 13.200 19.996 20.000
3 Genomics of Medicinal Plants and Agronomically Important Traits (PlaGen) 8.750 11.025 9.934 10.000
4 Medicinal Chemistry for stem cell biology and regenerative medicine (MEDCHEM) 19.108 8.811 14.000 14.000
5 Integrated NextGen approaches in health disease and environmental toxicity (INDEPTH) 76.093 60.090 74.721 73.720

Rs. Lakh

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6 Understanding supra molecular ensembles and machines (UNSEEN) 164.104 126.742 178.345 179.950
7 Host Interactome analysis: Understanding the Role of Host molecules in Parasitic Infection (HOPE) 441.521 380.274 326.422 333.500
8 Neurodegenerative diseases: Causes and Corrections (miND) 363.609 283.725 339.299 311.600
9 Therapeutics of Chronic Obstructive Pulmonary Disease (COPD) and Related Respiratory Disorders (TREAT) 178.437 123.609 167.557 170.800
10 Plant-Microbe and Soil Interactions (PMSI) 25.911 16.095 22.219 15.400
11 Epigenetics in Health and Disease (EpiHeD) 10.125 11.850 14.249 8.750
12 Man as a Superorganism: Understanding the Human Microbiome (HUM) 144.194 104.561 133.312 106.917
13 Centre for BIOtherapeutic Molecule DISCOVERY (BIODISCOVERY) 108.657 83.207 93.000 96.400
14 Genomics and Informatics Solutions for Integrating Biology (GENESIS) 73.076 27.517 27.930 23.430
15 Genome Dynamics in cellular organization, differentiation and enantiostasis (GenCODE) 26.220 28.819 44.500 29.500
16 Bio-energetic Disorders: A multi-model approach to monitoring and management (BenD) 1110.347 444.424 534.536 521.200
17 Organic reactions in generating innovative and natural scaffolds (ORIGIN) 15.754 18.764 25.746 25.770
18 Development of Novel CSIR Technologies for Manufacturing Tailored and Patient-Specific Bioceramic Implants and Biomedical Devices at Affordable Cost (BIOCERAM) 57.967 127.000 61.526 63.694
19 CSIR Knowledge Gateway and Open Source Private Cloud Infrastructure (KNOWGATE) 0.000 6.905 2.843 0.000
20 Innovation Complexes 931.440 869.953 0.000
21 Integrated Analysis for Impact, Mitigation and Sustainability (IAIMS): Regional Climate Modelling at Decade Scale 12.500 0.000 0.000

Laboratory: CSIR-IICB 3848.855 2809.277 2177.837 2078.931

Total of West Bengal 9122.938 70919.953 6251.816 4927.696
