

List of Ongoing Project/Scheme since Inception to Till Date as Per Records Available in R& D Section

Sl.No.	Title of the Project	Principal Investigator	Sponsoring Agency	Project Start Date	Project Closed Date	Sanctioned Amount	Dept.	Remarks
1	Application and development of Isotope techniques to evaluate human impact on water balance and nutrient dynamics of Large River Basins	Prof. Prasanta Sanyal	IAEA (International Atomic Energy Agency)	29 May 2014	31 March 2023	7,16,836	DES	Ongoing
2	FIST Program-2017	DBS, Head	DST	01 October 2018	31 March 2025	1,12,00,000	DBS	Ongoing
3	Porous Covalent Organic frameworks with Exceptional Chemical Stability for CO ₂ Capture	Prof. Rahul Banerjee	Tata Steel	09 October 2019	31 March 2025	7,50,000	DCS	Ongoing
4	Computational modeling of collective cell motion to explore its mechanical features and roles in development	Dr. Dipjyoti Das	DBT	01 July 2019	30 June 2024	42,50,000	DBS	Ongoing
5	Unravelling the mechanisms of temperature-mediated regulation of growth and development in plants	Dr. Sreeramaiah N. Gangappa	DBT	01 August 2019	31 July 2024	42,50,000	DBS	Ongoing
6	Profiling of bromodomain specific interacting partners using unnatural amino acid mutagenesis	Dr. Babu Sudhamalla	DBT	01 July 2019	30 June 2024	42,50,000	DBS	Ongoing
7	Genome-enabled environmental genomics and expression profiling of marine diatoms in a high CO ₂ World "Swarnajayanti Fellowship"	Prof. Punyasloke Bhadury	DST	15 October 2019	14 October 2024	1,74,49,480	CCES	Ongoing
8	FIST PROGRAM	DMS, Head	DST	05 June 2020	04 June 2025	44,00,000	DMS	Ongoing
9	Unravelling the role of Phytochrome B in temperature-mediated regulation of growth and defense responses in Rice (<i>Oryza sativa</i> L.)	Dr. Sreeramaiah N. Gangappa	MHRD-STARS	10 June 2020	09 June 2024	49,92,000	DBS	Ongoing
10	From Waste to Asset using Cheap and Abundant Alkaline Earth Metal Catalysts: Carbon dioxide as a building block for Methanol Formation and N-Methylation of Amines	Prof. Debasis Koley	MHRD-STARS	10 June 2020	09 June 2024	93,49,000	DCS	Ongoing
11	Structural studies on Mycobacterium Ribosome-CgtA complexes by cryo-EM towards identifying potential drug target(s)	Dr. Partha Pratim Datta	MHRD-STARS	15 May 2020	14 May 2024	49,49,000	DBS	Ongoing
12	Integrating metabolic and protein engineering for the production of sustainable biofuels	Dr. Supratim Datta	MHRD-STARS	15 May 2020	14 May 2024	75,55,000	DBS	Ongoing
13	Fabrication and Implementation of spin qubit based quantum gates for quantum information processing in solid state systems	Prof. Chiranjib Mitra	DST	20 April 2020	19 April 2023	3,85,26,000	DPS	Ongoing
14	Machine Learning Based Assessment of the Solar Forcing of Space Environment	Prof. Dibyendu Nandi	SPARC	04 November 2020	03 November 2022	67,66,770	CESSI	Ongoing
15	Sustained Autonomy in Out of Equilibrium Supramolecular materials (Swarjayanti Fellowship)	Dr. Dibyendu Das	SERB	09 December 2020	08 December 2025	3,75,96,800	DCS	Ongoing
16	Monitoring Freshwater Fish Population in Selected Indian Landscapes with Reference to the Changing Climatic Variables	Dr. Anuradha Bhat	MoEFCC	01 October 2020	30 September 2025	30,00,000	DBS	Ongoing
17	Response of diverse protein states to thermodynamic extremes: Computational investigations of the pressure-temperature stability	Dr. Neelanjana Sengupta	SERB	22 December 2020	21 June 2024	28,40,882	DBS	Ongoing
18	Development of Synthetic Methodologies by Photoredox catalysis based on Non-covalent Interactions and Cooperative	Dr. Suman De Sarkar	CSIR	01 August 2021	31 July 2024	32,42,000	DCS	Ongoing
19	Development of Homogeneous manganese Catalysts: Application in Hydrogenations, Carbon-Carbon and Carbon-	Dr. Biplab Maji	CSIR	02 September 2021	01 September 2024	18,50,000	DCS	Ongoing
20	Total Synthesis of Naturally Occurring Meroterpenoids of Biological Relevance	Prof. Alakesh Bisai	CSIR	18 January 2022	17 January 2025	15,00,000	DCS	Ongoing
21	Development of Foldamer Based Organic Phosphorescent Materials	Prof. Debasish Haldar	CSIR	02 September 2021	01 September 2024	14,90,000	DCS	Ongoing
22	Understanding the Catchment Hydrology of eastern Himalayan River: A stable isotopic approach	Prof. Prasanta Sanyal	BRNS -DAE	09 July 2021	08 July 2024	24,85,100	DES	Ongoing

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23	Understanding the impact of diet on insect physiology, innate immunity and trophic interactions	Dr. Radhika Venkatesan	SERB	12 July 2021	11 July 2024	53,14,980	DBS	Ongoing
24	Understanding the anti-viral role of Ifit2 against murine β -Coronavirus infection	Prof. Jayasri Das Sarma	SERB	09 August 2021	09 August 2024	57,39,888	DBS	Ongoing
25	Nature vs Nature: Exploring Behavioural Syndromes in free ranging Dogs	Dr. Anindita Bhadra	DBT	25 August 2021	24 August 2026	26,00,000	DBS	Ongoing
26	JC Bose Fellowship	Prof. Soumitra Banerjee	DST	01 February 2021	31 October 2025	90,25,000	DPS	Ongoing
27	Campylobacter Jejuni Outer Membrane Vesicles: Role in Host Pathogen Interaction and vaccine perspectives	Dr. Amirul Islam Mallick	DBT	29 September 2021	28 September 2024	39,57,800	DBS	Ongoing
28	Assessing the immuno-therapeutic potential of type III interferons-IFNs (IFN- λ) against Avian Influenza virus (AIV) infections in murine and chickens models	Dr. Amirul Islam Mallick	DBT	29 September 2021	28 September 2024	43,55,200	DBS	Ongoing
29	SYNTHESIS STABILIZATION OF LOW- COORDINATE PHOSPHINIDENES: TOWARDS CATALYTIC APPLICATIONS	Prof. Swadhin K. Mandal	CSIR	01 August 2021	31 July 2024	23,33,333	DCS	Ongoing
30	Time Independent and Time-Dependent Information in Various Confined Systems	Prof. Amlan K Roy	CSIR	01 August 2021	31 July 2024	16,90,667	DCS	Ongoing
31	ORGANOMETALLIC MULTINUCLEAR D6/D8 METAL COMPLEXES FOR THE THERANOSTIC APPLICATION CELLULAR IMAGING TO METALLO-DRUGS	Dr. Parna Gupta	CSIR	01 August 2021	31 July 2024	13,00,000	DCS	Ongoing
32	Polyisobutylene Based Polymeric Architectures by Tandem Living Polymerizations	Prof. Priyadarsi De	SERB	01 December 2021	30 November 2024	62,37,000	DCS	Ongoing
33	Self-assembled Cyano-substituted Stilbenes: Phototunable Multi-color Luminescence, Multivalent Bio-analyte Sensing and Artificial Light Harvesting	Dr. Supratim Banerjee	SERB	01 December 2021	30 November 2024	61,08,696	DCS	Ongoing
34	Investigation on the role of bulk trap states on the resistive state switching in organic semiconductor devices	Dr. Ratheesh K Vijayaraghavan	SERB	13 December 2021	12 December 2024	31,27,696	DCS	Ongoing
35	Exploring Atomic and Molecular Electronic Excitation in Strong Magnetic Fields	Dr. Sangita Sen	SERB	13 December 2021	12 June 2024	22,67,278	DCS	Ongoing
36	visible-light distal trifluoromrthy (thiol)ation of C (sp ³)-H Bonds	Dr. Sureshkumar Devarajulu	SERB	03 December 2021	02 December 2024	33,30,283	DCS	Ongoing
37	Co-creating Sustainable Agri-Water Use in the Hindon sub-basin –A Multi Scale Participatory Approach	Prof. Prasanta Sanyal	DST-NWO	07 February 2022	06 February 2027	2,61,36,385	CCES	Ongoing
38	2D and 3D Metal-halide Perovskite Nanostructures for Photochemical and Electrochemical Energy Conversion	Prof. Sayan Bhattacharyya	SERB	27 December 2021	26 December 2024	38,50,000	DCS	Ongoing
39	Designing Metal complexes of organic directing ligands to target cancer stem cells (CSCs): Inhibiting the Notch Signaling	Prof. Arindam Mukherjee	SERB	29 December 2021	28 December 2024	50,82,000	DCS	Ongoing
40	Analysing temporal trends in regional paleo-metacommunity structures of the post-Miocene marine fossils of the western India using taxonomic and ecological diversities	Dr. Subhronil Mondal	SERB	30 December 2021	29 December 2024	25,94,360	DES	Ongoing
41	Understanding the role of Target of Rapamycin TOR signaling in mediating cell shape transition during epithelial morphogenesis using the fly oogenesis model	Prof. Mohit Prasad	SERB	30 December 2021	29 December 2024	47,44,872	DBS	Ongoing
42	Exploration of Mechanically Flexible Organic Single Crystals in Flexible Opto-Electronic Devices	Prof. C. Malla Reddy	SERB	14 January 2022	13 January 2025	1,02,96,000	DCS	Ongoing
43	Understanding the trafficking regulation of human Copper ATPases	Dr. Arnab Gupta	SERB	21 January 2022	20 January 2025	41,83,080	DBS	Ongoing
44	Developing a nature-inspired, general approach for enzymatic synthesis of hybrid biopolymer pepetide oligonucleotide conjugates	Dr. Purba Mukherjee	DBT	18 August 2021	17 August 2024	46,00,000	DBS	Ongoing

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45	Stereoselective cationic (co)polymerization of suitable polar and non polar monomers and their kinetic studies	Prof. Priyadarsi De	ExxonMobil Chemical Company	21 February 2022	31 March 2025	33,55,040	DCS	Ongoing
46	Effects of gravitational time dilation on neutron star equation of states	Dr. Golan Mortuza Hossain	SERB	21 February 2022	20 February 2025	6,60,000	DPS	Ongoing
47	Holographic Geometry of Quantum Matter	Dr. Siddhartha Lal	SERB	23 February 2022	22 February 2025	6,60,000	DPS	Ongoing
48	DBT-BUILDER-IISER Kolkata Interdisciplinary Life Science Programme for Advance Research and Education	Prof. Jayasri Das Sarma	DBT	24 February 2022	23 February 2027	7,89,05,349	DBS	Ongoing
49	Exploring the many -particle entanglement and quantum criticality of quantum matter	Dr. Siddhartha Lal	SERB	28 February 2022	27 August 2025	31,27,696	DPS	Ongoing
50	Control and Inverse Problems for the Compressible Navier-Stokes Equations?	Dr. Shirshendu Chowdhury	SERB	18 February 2022	17 February 2025	6,60,000	DMS	Ongoing
51	Some nonparametric methods for discretely observed functional data?	Dr. Anirvan Chakraborty	SERB	18 February 2022	17 February 2025	6,60,000	DMS	Ongoing
52	High Pressure Studies on Pb-free Halide Perovskites and double-Perovskites: A search for improved optoelectronic behavior	Prof. Goutam Dev Mukherjee	SERB	19 March 2022	18 March 2025	46,65,287	DPS	Ongoing
53	Developing Rapid-Scan Optical Delay based Ultra Broadband Terahertz Spectroscopy	Dr. Kamaraju Natarajan	SERB	14 March 2022	13 March 2025	31,21,294	DPS	Ongoing
54	Discovery of Covalent-Organic Nanotubes (CONTs): A Possible Carbon Nanotube (CNT) Alternative	Prof. Rahul Banerjee	SERB	19 March 2022	18 March 2025	79,20,000	DCS	Ongoing
55	Design of fibre-like cross linked high stable polymeric material to remediation of textile generated waste management	Prof. Raja Shunmugam	MOT	29 March 2022	28 March 2025	79,54,000	DCS	Ongoing
56	The plastic pandemic: The fate of weathered-single-used PPE kits and other related products during Covid-19 in the aquatic environments	Dr. Gopala Krishna Darbha	SERB	27 June 2022	26 June 2025	55,55,000	DES	Ongoing
57	Effect of impurities on the isotope geochemistry of some important rock forming minerals: A combined theoretical and experimental study	Dr. Swastika Chatterjee	SERB	22 June 2022	21 June 2025	35,34,696	DES	Ongoing
58	Analysis of genetic variants of human hemoglobin and its effect on the assessment of glycated hemoglobin	Dr. Amit Kumar Mandal	ICMR	02 August 2022	01 August 2025	27,04,780	DBS	Ongoing
59	Quantum Simulations of Flat band Moire Superlattices	Dr. Bheemalingam Chittari	SERB	07 October 2022	06 October 2024	28,60,000	DPS	Ongoing
60	Charge Density wave state in correlated quantum matter : Frustration and lattice coupling	Prof. Amit Amal Ghosal	CEFIPRA	17 August 2022	16 August 2025	78,54,995	DPS	Ongoing
61	Providing Computational results of multireference calculation on photoredox/transitional metal dual Catalysis	Prof. Debasis Koley	King Abdullah University of Science and Technology	18 August 2022	17 August 2024	10,93,722	DCS	Ongoing
62	Development of Reagentless Oxidative [4+2]-Cycloaddition of Quinols: Total Syntheses of Naturally Occurring Bioactive	Prof. Alakesh Bisai	SERB	04 November 2022	03 November 2025	61,60,000	DCS	Ongoing
63	FRET-Based Optical Response and Sensing by Molecular Rotor Components in Soil and Water Samples	Prof. Amitava Das	DRDO	20 October 2022	19 October 2025	43,22,000	DCS	Ongoing
64	Study the risk of Arsenic contamination in the food chain and methods of risk reduction in our project implementation areas of west bengal, India	Prof. Punyasloke Bhadury	Bandhan-Konnagar	01 September 2022	28 February 2023	9,90,000	CCES	Ongoing
65	Understanding the coupled dynamics of host-influenza interaction and cytokine response by combining mathematical modeling with experiments	Dr. Dipjyoti Das	SIRE	12 November 2022	12 May 2023	17,02,816	DBS	Ongoing
66	Inspire Faculty Award	Dr. Arjun Pal	DST	19 July 2021	18 July 2026	35,00,000	DMS	Ongoing

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Sl.No.	Title of the Project	Principal Investigator	Sponsoring Agency	Project Start Date	Project Closed Date	Sanctioned Amount	Dept.	Remarks
67	Evaluation of a novel microbial consortia for effective management of fecal coliform and biological oxygen demand (BOD) levels in septic tank and sewage treatment plant (STP)	Prof. Punyasloke Bhadury	WBPCB	20 December 2022	19 March 2023	6,68,000	CCES	Ongoing
68	Vigyan Pratibha Program	Dr. Anindita Bhadra	TIFR HBCSE	11 November 2022	10 November 2026	15,65,000	DBS	Ongoing
69	Design and Development of 2D Layered Materials-based Catalysts for Light-Mediated CO ₂ Fixation	Dr. Venkataramanan Mahalingam	SERB	26 December 2022	25 December 2025	57,97,000	DCS	Ongoing
70	FRET/FLIM-FRET technique to investigate the role of hydrophobic and hydrophilic gold nanoclusters in modulating vesicle fusion and determination of the thickness of lipid bilayer	Prof. Pradipta Purkayastha	SERB	26 December 2022	25 December 2025	67,13,696	DCS	Ongoing
71	Chemical Synthesis of the Oligosaccharides Related to the Capsular Polysaccharides from <i>Acinetobacter baumannii</i> Strains for Potential Vaccine Development	Prof. Balaram Mukhopadhyay	SERB	26 December 2022	25 December 2025	61,79,888	DCS	Ongoing
72	Catalytic Activation and Functionalization of Sulfur Dioxide (SO ₂) and Nitrous Oxide (N ₂ O) using Reactive Main-group Compounds	Prof. Swadhin K. Mandal	SERB	26 December 2022	25 December 2025	60,64,696	DCS	Ongoing
73	Taking nutrition-sensitive carp-SIS polyculture technology to scale	Prof. Punyasloke Bhadury	WORLD FISH	06 October 2022	05 October 2025	16,80,572	CCES	Ongoing
74	Design and Synthesis of Membrane Fusion Inhibitors to Develop Antiviral Compounds	Dr. Pradip Kumar Tarafdar	SERB	27 December 2022	26 December 2025	36,52,000	DCS	Ongoing
75	In Situ Bioremediation approach at Two Drains Leading to Noai Khal (Falling on the River Bidydhari) and Khardah Khal (falling on the river Hooghly)	Prof. Punyasloke Bhadury	WBPCB	02 January 2023	01 July 2023	21,10,000	CCES	Ongoing
76	Light-driven reversible modulation of electrical conductance with organic photochromic materials	Prof. Subhajit Bandyopadhyay	SERB	10 January 2023	09 January 2026	62,29,696	DCS	Ongoing
77	Classification of graph C*-algebras as S ¹ principal bundles	Dr. Soumalya Joardar	SERB	09 January 2023	08 January 2026	6,60,000	DMS	Ongoing
78	Monitoring Biodiversity and Ecosystem Services for Ecosystem Enhancement under the green India Mission : Phase-2	Dr. Robert John Chandran	MPSBB	11 January 2023	10 May 2024	64,71,000	DBS	Ongoing
79	Development of Selective Fluorination Strategies via Visible-Light-Photoredox Catalysis and Electrocatalysis Towards Late-Stage Diversifications of Drug Molecules	Dr. Biplab Maji	SERB	12 January 2023	11 January 2026	62,67,888	DCS	Ongoing
80	Orbit spaces of Unimodular rows over smooth affine algebras and Efficient generation of ideals	Dr. Md. Ali Zinna	SERB	12 January 2023	11 January 2026	6,60,000	DMS	Ongoing
81	Promiscuous Catalytic Repertoire of Cross β Amyloids as Designer Enzymes	Dr. Dibyendu Das	SERB	12 January 2023	11 January 2026	65,92,380	DCS	Ongoing
82	Next generation porous conducting polymers/frameworks for efficient reverse electrochemical desalination	Prof. Rahul Banerjee	Khalifa University	06 January 2023	05 January 2026	40,97,046	DCS	Ongoing
83	Anderson localization in interaction driven correlated metals: Role of the multifractality of electronic wavefunctions	Prof. Amit Amal Ghosal	SERB	18 January 2023	17 January 2026	6,60,000	DPS	Ongoing
84	Approximation of biholomorphic maps and the Loewner theory in several complex variables	Dr. Sushil Gorai	SERB	23 January 2023	22 January 2026	30,11,888	DMS	Ongoing
85	Upcycling of Commodity Polymers via Solvent-free Fe-mediated Catalytic Hydroxylation	Prof. Sayam Sen Gupta	SERB	31 January 2023	30 January 2026	57,44,400	DCS	Ongoing
86	Prioritisation of Freshwater ecosystems	Prof. Punyasloke Bhadury	The Nature Conservancy India	02 February 2023	31 March 2024	16,00,000	CCES	Ongoing
87	Ultrafast and polarization-resolved optical study of the	Prof. Bipul Pal	SERB	13 February 2023	12 February 2026	42,02,000	DPS	Ongoing
88	Synthesis of Viscosity Modifiers	Prof. Raja Shunmugam	Unilever	01 December 2022	31 March 2024	36,00,000	DCS	Ongoing

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89	Understanding the Molecular basis of wilson disease pathology	Dr. Arnab Gupta	ICMR	16 February 2023	15 February 2026	32,90,000	DBS	Ongoing
90	Application of water Isotopes in Disentangling the Impact of of Macroscale Climatic Controls and Microscale Hydrological Process in ground water-wetland Ecosystems form the Lower Ganga-Brahmaputra Basin, Indo- Bangladesh Peninsula	Prof. Prasanta Sanyal	IAEA (International Atomic Energy Agency)	20 September 2022	19 February 2026	13,37,367	DES	Ongoing
91	Using Machine learning to understand the impacts of water quality and habit disturbances on fish community structure and patterns in lower East_himalayan strams of India and in <u>La Moselle straem in france</u>	Dr. Anuradha Bhat	CEFIPRA	23 January 2023	22 January 2026	41,53,874	DBS	Ongoing
92	Biocompatible PolymericNanocarries for Theranostic Cancer Drug Delivery	Prof. Raja Shunmugam	DBT	13 March 2023	12 March 2026	83,36,440	DCS	Ongoing
93	Micro-Mat: Light- and Bio-Sensitive Soft Micro-Materials	Dr. Supratim Banerjee	CEFIPRA	17 August 2022	16 August 2025	52,33,318	DCS	Ongoing
94	Emulating neuromorphie synapse via resistive state switching in Non-equilibrium Assemblies of Amyloid Peptides	Dr. Dibyendu Das	DBT	10 March 2023	09 March 2026	61,72,800	DCS	Ongoing
95	Centre for Marine Therapeutics	Prof. Punyasloke Bhadury Dr. Rituparna Sinha Roy	NIPER Kolkata	31 March 2023	30 March 2028	57,22,000	CCES	Ongoing
96	Insa Honorary Scientist	Prof. Somdatta Sinha	INSA	22 March 2022	21 March 2024		DBS	Ongoing
97	Studies on stochastic micro-engines in complex fluids	Prof. Ayan Banerjee	SERB	31 May 2023	30 May 2026	49,85,241	DPS	Ongoing
98	Exploring the role of tandem epigenetic readers in regulating gene expression using an expanded genetic code	Dr. Babu Sudhamalla	SERB	26 June 2023	25 June 2026	43,54,799	DBS	Ongoing
99	Bioengineering Bacterial Extracellular Vesicles (BEVs) as a multifunctional oral delivery platform for biomedical applications	Dr. Amirul Islam Mallick	SERB	13 July 2023	12 July 2026	44,77,960	DBS	Ongoing
100	Assessing the Climate sensitivity of geomorphic process in the Himalava	Dr. Sanjay Kumar Mandal	CSIR			21,00,000	DES	Ongoing
101	Red Emitting Meta_fluorophores Exploring Structure-Property Relationship Through Ultrafast Dynamic, Crystallography and cell-Organelle Specific Live cell Imaging	Prof. Prasun Kumar Mandal	CSIR			9,00,000	DCS	Ongoing
102	Research Training of Dr. Bosirul Hoque at IISER KOLKATA	Prof. Rahul Banerjee	KFUPM	03 August 2023	02 August 2024	3,60,000	DCS	Ongoing
103	Hierarchical Porous MOF-Polymer Coating for CO2 Capture and Sequestration	Prof. Rahul Banerjee	Tata Steel	01 September 2023	01 March 2026	30,00,000	DCS	Ongoing
104	Criticality and metastability in zeroth-order abrupt phase transitions in solid-state materials	Dr. Bhavtosh Bansal	SERB	11 September 2023	10 September 2026	73,70,000	DPS	Ongoing
105	TCG Lifesciences PVT. LTD.	Prof. C. Malla Reddy	TCG Lifesciences PVT. LTD.	18 August 2023	17 August 2024	34,00,000	DCS	Ongoing
106	A Novel approach of targeting Leishmania By Liposome Encapsulated Carbonic Anhydrase Inhibitors	Prof. Rupak Datta	ICMR	03 October 2023	02 October 2024	23,86,944	DBS	Ongoing
107	Investigating The role of ADAMTS13 in regulating angiogenesis of human MSCs under various physiological stress conditions	Dr. Malancha Ta	DBT	06 September 2023	05 September 2025	31,53,000	DBS	Ongoing
108	Functional Polymers in the Context to Deodorants and Antiperspirants in Beauty and Personal Care Category	Prof. Priyadarsi De	Unilever	27 October 2023	26 October 2025	36,00,000	DCS	Ongoing
109	Crust and upper mantle shear velocity anistopic structure in the Indo Burma Ranges and its geodynamic implication	Dr. Kajaljyoti Borah	MoE-STARs	03 October 2023	02 October 2026	48,96,000	DES	Ongoing

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110	Multimodal Photocatalytic Therapy Based on NIR-Active Perovskite Peptide Nanocomposites for Hard-To-Treat Lung Biofilm Infections	Dr. Amirul Islam Mallick	MoE-STARs	03 October 2023	02 October 2026	48,96,000	DBS	Ongoing
111	Microplastic assessment, plastisphere microbiome metagenomics, and sensitization of local communities in Chilika Lagoon, Odisha, India	Dr. Punyasloke Bhadury	DBT			42,33,000	CCES	Ongoing
112	Investigating adaptive strategies of forest trees to temperature and water stress to inform climate-resilient	Dr. Robert John Chandran	MoE-STARs	03 October 2023	02 October 2026	44,90,000	DBS	Ongoing
113	Total Syntheses of Antiviral Natural Products Isolated from Marine Sources: Dimeric Indolosesquiterpene Alkaloids Showcasing Rare N-N and C-N Atropoisomerism	Prof. Alakesh Bisai	MoE-STARs	03 October 2023	02 October 2026	40,00,000	DCS	Ongoing
114	Live vector-based multivalent vaccine against cecal colonisation of Campylobacter jejuni in commercial chickens	Dr. Amirul Islam Mallick	BactiVac	01 November 2023	31 July 2024	36,63,848	DBS	Ongoing
115	Identifying the TRP Channels Involved in Mediating Proliferation and Migration of Human Mesenchymal Stem Cells under Different Temperature Stress Conditions	Dr. Malancha Ta	SERB	06 December 2023	05 December 2026	38,48,890	DBS	Ongoing
116	Understanding the Molecular basis of phenotypic overlap in MEDNIK syndrome and diseases of copper metabolism	Dr. Arnab Gupta	MoE-STARs	03 October 2023	02 October 2026	47,00,000	DBS	Ongoing
117	Study of Coastal carbon dynamics of Sundarbans Estuary	Dr. Gopala Krishna Darbha	ISRO	22 November 2023	21 November 2026	59,54,000	DES	Ongoing
118	Active Matter for Water Cleaning and Directed Green Synthesis	Prof. Soumyajit Roy	CSIR	15 November 2023	14 November 2026	9,00,000	DCS	Ongoing
119	Establishment of Nodal Center for Key Starting materials and Intermediates under Therapeutic Chemicals Program	Prof. Punyasloke Bhadury	DST (CMT01)	08 November 2023	07 November 2024	48,79,000	CCES	Ongoing
120	Petrochemical investigation along two N-S transects in the granulite Terrane of Southern India: Reconstructing the crustal architecture and the thermotectonic events during the late archaean /early Palaeoproterozoic and Neoproterozoic time	Dr. Tapabrato Sarkar	MoES	26 December 2023	25 December 2026	15,15,000	DES	Ongoing
121	Towards Accelerated robotic Discovery of Layer Grafted Porous Crystalline Covalent Organic Framework (LG-COF) Thin films for selective Molecular	Prof. Rahul Banrjee	CSIR	16 November 2023	15 November 2026	15,00,000	DCS	Ongoing
122	Defining the role of viral and host factors in Natural killer (NK) cell and T cell immunity to Dengue (DENV) and Zika (ZIKV) virus infection	Dr. Sumit Sen Santara	SERB	12 February 2024	11 February 2026	28,71,000	DBS	Ongoing
123	Studying the impact of population fluctuation in microbial evolutionary processes by combining theory and experiment	Dr. Dipjyoti Das	SERB	14 February 2024	13 February 2027	50,18,794	DBS	Ongoing
124	Blackhole Perturbation Framework in Horizon Penetrating Coordinate System	Prof. Rajesh Kumble Nayak	SERB	17 February 2024	16 February 2027	6,60,000	CESSI	Ongoing
125	National Network Project of University of Kalyani and IISER Kolkata	Dr. Rituparna Sinha Roy Dr. Susmita Roy	DBT	19 December 2023	18 December 2028	37,38,916	CCES	Ongoing
126	Conjugated polymeric materials for Photocatalytic hydrogen peroxide generation	Prof. Sanjio S. Zade	SERB	21 February 2024	20 February 2027	41,84,224	DCS	Ongoing
127	Ultra-Bright and Colour-Pure Pb-Free Double-Perovskites: Energetics, Exciton Dynamics and Singlet Exciton Fission	Prof. Prasun K. Mandal	SERB	02 March 2024	1 March 2027	57,95,900	DCS	Ongoing
128	Fluctuation-based local control and coupling of endocytosis in cholesterol-dependent and independent pathways.	Dr. Bidisha Sinha	SERB	02 March 2024	1 March 2027	56,53,864	DBS	Ongoing

List of Ongoing Project/Scheme since Inception to Till Date as Per Records Available in R& D Section

Sl.No.	Title of the Project	Principal Investigator	Sponsoring Agency	Project Start Date	Project Closed Date	Sanctioned Amount	Dept.	Remarks
129	Nature-Inspired Asymmetric Total Syntheses of Bioactive Fungal Metabolites: reverse-Prenylated Indole alkaloids with Bicyclo[2.2.2] diazaoctane Ring System	Prof Alakesh Bisai	SERB	15 March 2024	14 March 2027	67,32,000	DCS	Ongoing
130	Development of Visible-Light Energy-Transfer Catalysis for Dearomative Cycloaddition and Bond Formation Reactions in Accessing sp ³ -Rich Rigid 3D Molecular Scaffolds	Dr. Biplab Maji	SERB	16 March 2024	15 March 2027	58,52,000	DCS	Ongoing
131	Synthetic self-regulated microbial consortia for the production of cellulase cocktail towards the synthesis of lignocellulose-based products	Dr. Supratim Datta	SERB	16 March 2024	15 March 2027	59,68,688	DBS	Ongoing