

Sponsored Projects - Underway

Sl. No.	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration
1	TECHIN Project	Dr. Praveena Gangadharan	HDFC CSR	207108278	01 January 2022 - 31 March 2025
2	Studies on the performance of coir geotextile reinforced embankments	Dr. Divya P. V.	Central Coir Research Institute	2532000	24 July 2021 - 23 July 2025
3	Recycling C&D waste including non-concrete parts for geotechnical engineering applications	Dr. Divya P. V.	DST - WMT (Waste Management Technology Programme)	6618440	15 September 2021 - 20 September 2025
4	Development of High RAP Mixtures: Laboratory Investigation on the Effect of Bio-Rejuvenators	Dr. C. V. Veena Venudharan	SERB POWER	5862032	28 June 2022 - 27 June 2025
5	Microphase Separation in the Bottlebrush Polymers under Confinement: An Effective Ruling Principle for Microscopic Organization	Dr. Debarati Chatterjee	SERB POWER	1844832	28 June 2022- 27 June 2025
6	Eternal Vertex Cover Problem of Bipartite Graphs, Constant Treewidth Graphs and Planar graphs	Dr. Jasine Babu	SERB POWER	1745832	18 July 2022 - 17 July 2025
7	Multiplicities and graded algebras associated to filtrations of ideals	Dr. Parangama Sarkar	SERB POWER	1341840	18 July 2022 - 17 July 2025
8	Design and Evaluation of OTFS and OCDM Transceivers for Underwater Acoustic Communication	Dr. Jobin Francis	Naval Research Board	2136880	02 November 2022 - 01 November 2025
9	Seismic Fragility Analysis of Dams in the state of Kerala	Dr. Arun C. O.	KSCSTE ETP	1492800	21 November 2022 - 20 November 2025
10	Single crystal growth and investigation of topological materials.	Dr. Moumita Nandi	DST INSPIRE Fellowship	3500000	24 December 2020 - 23 December 2025
11	Stochastic Resonance based detectors using thin-film integrated ferroelectrics	Dr. Arvind Ajoy	SERB CRG	7373630	26 December 2022 - 25 December 2025
12	Relevance of Protein Secondary Structure in Polypeptide-Enzyme Interactions for Regulating the Enzymatic Function – A Combined Theoretical and Experimental Approach	Dr. Padmesh A.	SERB Core Research Grant	3483832	07 January 2023 - 06 January 2026
13	The study of Turaev cobracket from a hyperbolic geometric perspective	Dr. Arpan Kabiraj	SERB MATRICS	660000	07 January 2023 - 06 January 2026
14	Information Geometric Approach to Estimation Error Bounds	Dr. M. Ashok Kumar	SERB MATRICS	660000	10 January 2023 - 09 January 2026
15	Fix Point Computation of Herbrand Equivalence of Expressions in Data Flow Frameworks using Abstract Interpretation	Dr. Jasine Babu	SERB MATRICS	660000	10 January 2023 - 09 January 2026
16	Complexity of Graph Contraction Problems	Dr. Krithika Ramaswamy	SERB MATRICS	660000	12 January 2023 - 11 January 2026
17	Balance in Chaos - Searching for Equitable Patterns in Edge- Colored Graphs	Dr. Krithika Ramaswamy	SERB CRG	1919082	23 January 2023 - 22 January 2026
18	Semilinear Elliptic Boundary Value Problems on Unbounded Domains in R^2	Dr. Lakshmi Sankar K.	SERB CRG	2675596	23 January 2023 - 22 January 2026
19	Design and development of an underwater cleaning robot for marine applications	Dr. Santhakumar Mohan	IITG TIDF	2360000	31 January 2023 - 30 January 2026
20	Compact, High-gain Ultrawideband Antennas for Real-time Underwater Wireless Communication	Dr. Sukomal Dey	IITG TIDF	1180000	31 January 2023 - 30 January 2026
21	Fabrication of low cost sensor devices for early detection of biomarkers related to neurological disorders using 2D nanomaterials	Dr. Abdul Rasheed P.	Department of Biotechnology	11360000	01 September 2021 - 31 August 2026

22	Bills & Melinda Gates Foundation	Dr. Vivek Chaturvedi	Bills & Melinda Gates Foundation	213350566	24 March 2022 - 31 March 2027
23	Wearable/Portable Biomimetic Nanosensors for On-site Detection of Organophosphate Nerve Agents and Illicit Drugs	Dr. Yugender Goud Kotagiri	SERB Ramanujan Fellowship	3800000	09 May 2022 - 08 May 2027
24	Coding for Low-Latency Communication	Dr. Nikhil Krishnan M.	DST INSPIRE	3500000	19 September 2022 - 18 September 2027
25	Engineering porous silicon for capacitive deionization	Dr. Revathy Padmanabhan	SERB POWER	5815832	28 June 2022 - 27 June 2025
26	Synthesis of layered transition metal oxides and oxysulfides for optoelectronic applications	Dr. Tanushree Holme Choudhury, Assistant Professor, IIT Bombay	SERB POWER	0	14 September 2022 - 13 September 2025
27	Study for improved estimation as well as understanding of deep cloud particles and melting layer microphysical properties using phase based polarimetric radar simulations and measurements	Dr. Swaroop Sahoo	SERB CRG	1800120	07 February 2023 - 06 February 2026
28	Performance evaluation of tunnel and slope support systems against the coupled effect of freeze-thaw cycle and dynamic loading	Dr. Ankesh Kumar	SERB EMEQ	4457332	28 February 2023 - 27 February 2026
29	Two Dimensional Covalent Organic Frameworks: Design Principles and Material Applications in Sustainable Energy and Environment	Dr. Umadevi D.	DST Women Scientist A	3224247	14 March 2023 - 13 March 2026
30	Remote controlled colloidal robots for micro-manipulation and cargo transport: a self-assembly approach	Dr. Mayarani M.	DST INSPIRE	3500000	02 January 2023 - 01 January 2028
31	Deep learning-based inversion for geosteering and novel computational techniques for electrodynamics	Dr. Arijit Hazra	SERB Ramanujan Fellowship	11900000	22 February 2023 - 21 February 2028
32	Design of a Cyber-Physical System for Supporting Decision Making in Smart City Infrastructure Management	Dr. Senthilkumar V.	DST GITA	3562476	12 May 2023 - 11 May 2026
33	Investigations on the Rebinder effect and associated process mechanics in precision machining	Dr. Afzaal Ahmed	Mikrotools Pte. Ltd., Singapore	0	08 June 2023 - 07 June 2026
34	Establishment of facilities for Micro/Nano Fabrication, Surface Modification and Characterization of Materials	Dr. Samarjeet Chanda	DST FIST	16800000	07 March 2023 - 06 March 2028
35	Experimental and numerical studies on ammonia combustion in a Trapped Vortex Combustor	Dr. Krishna Sesha Giri	SERB CRG	5254832	31 May 2023 - 30 May 2026
36	Design and development of high stiffness gradient substrate for cellular mechanosensing	Dr. Bibhu Ranjan Sarangi	ERG	1250000	19 June 2023 - 18 June 2025
37	Improvement of surface and tribological properties of Laser Powder Bed Fusion (LPBF) processed Ti6Al4V alloy through anodising for biomedical applications	Dr. D Kesavan	ERG	500000	19 June 2023 - 18 June 2025
38	Pumped thermal energy storage system for IIT Palakkad: Study on feasibility by developing a lab-scale prototype	Dr. Pramod Kuntikana & Dr. Anand TNC	SGP	1900000	19 June 2023 - 18 June 2025
39	An Acoustic Study of the Nasal Consonants in Malayalam	Dr Reenu Punnoose	ERG	722000	19 June 2023 - 18 June 2025
40	Fatigue performance improvement of additive manufactured aerospace components using a sequential post-processing strategy	Dr. Afzaal Ahmed	ERG	1100000	19 June 2023 - 18 June 2025
41	Physics aware AI/ML based spatio-temporal root zone soil moisture estimation and agricultural drought characterization	Dr. Sarmistha Singh	ERG	1150000	19 June 2023 - 18 June 2025
42	Plasma electropolishing (PeP) for metal additive manufacturing	Dr. Dinesh Setti	SGP	3500000	19 June 2023 - 18 June 2025
43	Self-assembly Formation of “Amino-1,8-Naphthalimide-Tröger’s base” Scaffold Based Novel Structures, Smart Materials, and Functional Polymers with Tunable Properties for Use in Biological and Environmental Applications	Dr. Shanmugaraju Sankarasekaran	ERG	1500000	19 June 2023 - 18 June 2025

44	Sound attenuation by line and annular mass membrane acoustic metamaterials	Dr. Anoop Akoorath Mana	ERG/ FSG	2450000	19 June 2023 - 18 June 2025
45	Guiding active particles through complex environments	Dr. Vishwas V	ERG	472000	19 June 2023 - 18 June 2025
46	Development of a Prototype and Portable Imaging System for Malignant Tumor Detections Over Near Field Ultra - Wideband Regime Powered by Radio Frequenc Signals	Dr. Sukomal Dey	ERG	1450000	19 June 2023 - 18 June 2025
47	High Temperature Superconductivity	Dr. Jayakumar Balakrishnan	ERG	1050000	19 June 2023 - 18 June 2025
48	Method and System of for detecting an object using Microwave Imaging	Dr. Sukomal Dey	TETRA	3010000	07 June 2023 - 06 June 2025
49	Sustainable Slope Stabilization in Unsaturated Laterite Soil using Biopolymer	Dr. S. Smitha (Mentored by Dr. Rakesh J Pillai)	CMNPF (Chief Minister's Navakerala Post-Doctoral Fellowship)	2200000	20 June 2023 - 19 June 2025
50	Study on Pull-Out Resistance of Soil Nails for Climate- Resilient Infrastructures in Kerala Soil Conditions	Dr. Sudheesh T K	Kerala Highway Research Institute (KHRI)	3498000	August 2023 - August 2025
51	Development of Real-time Compact AI-Enabled UWB Radar Based See-Through-wall Human Sensing System for Hand-Held and Mobile Robot Based Human Search Applications	Dr. Subrahmanyam Mula	MeitY C2S	8521000	16 August 2023 - 15 August 2028
52	Paper-Based Lateral Flow Assay-Based Electrochemical Sensor for The Early Diagnosis of Kidney Dysfunction by the simultaneous Detection of Creatinine and Cystatin C	Dr. Jeethu Raveendran (Mentored by Prof. Jagadeesh Bayry)	CMNPF (Chief Minister's Navakerala Post-Doctoral Fellowship)	2200000	18 September 2023 - 17 September 2025
53	A comprehensive approach to disentangle climate and land cover change impact on water resources DECLARE	Dr. Athira P.	DST DAAD	1480000	11 September 2023 - 10 September 2025
54	A mul'targeted polypharmaceu'cal approach to simultaneously interfere Nipah virus life cycle and to reac'vate host an'viral immune response: In silico screening, docking and ADMET studies	Prof. Jagadeesh Bayry	ERG	2000000	01 October 2023 - 30 September 2025
55	Physics Aware AI/ML Tool for Spatiotemporal Root Zone Soil Moisture Estimation	Dr. Sarmistha Singh	IDEAS-TIH, ISI, Kolkata	410000	09 October 2023 - 08 October 2025
56	Exploring many body effects in quantum machines	Dr. Uma Divakaran	SERB POWER	1734832	15 September 2023 - 14 September 2026
57	Development of Cost-Effective 2.5kW PEM Fuel Cell Stack based on Less Pt-Bimetallic Electrocatalysts and Mesoporous Carbon support materials	Dr. Dinesh Jagadeesan	Centre for High Technology (CHT)	1754000	31 January 2024 - 30 January 2026
58	Optimization for an Image Reconstruction Mechanism for Breast Tumor Detection over the Ultra-wideband Regime with High Gain and Compact Antennas utilizing Near Field Microwave Medical Imaging	Dr. Sukomal Dey	IIT Mandi iHub & HCI Foundation	3791535	September 2023 - September 2025
59	Near net shape manufacturing of difficult to 3D print and fusion weld metals via friction welding for space and nuclear applications	Dr. Buchibabu Vicharapu	SGP	3500000	21 November 2023 - 20 November 2024
60	Effectiveness of a Proposed Dynamic Warning System: A Pilot Study on Drivers' Sensitivity Based on Surrogate Safety Analysis	Dr. B. K. Bhavathrathan	Kerala Highway Research Institute (KHRI)	2477000	November 2023 - November 2025
61	Dispersion Controlled in Silico Catalyst Design for the Chemical Hydrogen Battery	Dr. Rositha Kuniyil	MoE STARS	3500000	03 October 2023 - 02 October 2026

62	Resonance as a Phonetic Resource in Language Cognition: A Cross-Linguistic Articulatory-Acoustic-Perception Study of Liquids	Dr. Reenu Punnoose & Dr. Ghada Khattab (NEWCASTLE UNIVERSITY)	Scheme for Promotion of Academic and Research Collaboration (SPARC)	3457450	08 December 2023 - 07 December 2025
63	Design and Development of Advanced Forensics Data Analytics Tool	Dr. Vivek Chathurvedi	MeitY	1998000	14 December 2023 - 13 December 2025
64	Development of DSM based design rules for cold-formed steel columns undergoing shift of centroid	Dr. Hareesh M (SERB TARE Fellow)	SERB TARE	930000	22 January 2024 - 21 January 2027
65	Model Based Development of Domain ECU (DCU) and Validation through Hardware in Loop (HiL) Simulation for Commercial Vehicle Applications	Dr. Albert Sunny	IPTIF - IMPACT	6000000	31 January 2024 - 30 January 2025
66	Swiss-roll fuel reformer	Dr. Krishna Sesha Giri	IPTIF - IMPACT	3100000	31 January 2024 - 30 July 2025
67	Compact and Efficient GaN-based Battery Pre-heater Module for Operations in Subzero Climatic Conditions	Dr. Naga Brahmendra Yadav Gorla	IPTIF - IMPACT	2000000	31 January 2024 - 30 January 2026
68	Catalytic overlayers for early detection of battery thermal runaways	Dr. Dinesh Jagadeesan	IPTIF - IMPACT	2227000	31 January 2024 - 30 July 2025
69	Design and Development of 3-D printer for Fabricating Sustainable Product	Dr. S Kanmani Subbu	IPTIF - IMPACT	2200000	31 January 2024 - 30 July 2025
70	Design and development of a passive battery thermal management system for electric vehicles	Dr. Samarjeet Chanda	IPTIF - IMPACT	2017000	31 January 2024 - 30 July 2025
71	Optimal product configuration for SMT line	Dr. Narayanan C Krishnan	IPTIF - IMPACT	1350000	31 January 2024 - 30 January 2025
72	Methods to Improve the Reliability of the Wind Turbine GearBox System	Dr. Kesavan D	IPTIF - IMPACT	2109000	31 January 2024 - 30 July 2025
73	Fabrication of low-cost sensor prototype device for the real-time detection of anesthetic drugs from human samples	Dr Abdul Rasheed P	IPTIF - IMPACT	2400000	31 January 2024 - 30 July 2025
74	Macrocyclic - Derived Porous Organic Polymers for Task - Specific Sensing and Removal of Emerging organic Contaminants from water	Dr. Shanmugaraju Sankarasekaran	SERB EMEQ	3722461	10 January 2024 - 09 January 2027
75	Next Generation of Low Oxidation State and Low Coordinate Cations of s-Block Compounds: Base Metals with Noble Intentions	Dr. Yuvaraj K	SERB SRG	3258873	19 December 2023 - 18 December 2025
76	Coloniality and other frameworks of power: How mental health systems in India think about suffering	Dr. Sudarshan R. Kottai	Indian Institute of Technology Palakkad	290000	08 February 2024 - 08 January 2026
77	Cooperative Bond Activation by Heterometallic Low Valent Group 13 and Group 14 Compounds	Dr. Yuvaraj K.	Indian Institute of Technology Palakkad	2500000	08 February 2024 - 31 January 2026
78	Tuning the structure and functional properties of "amino-1,8-naphthalimide Troger's base" scaffolds as organic electrode materials for sustainable battery application	Dr. Shanmugaraju Sankarasekaran	SERB CRG	4374832	25 January 2024 - 24 January 2027
79	Unified Framework for Collaborative Intelligent Systems	Dr. Albert Sunny	IPTIF	677000	23 February 2024 - 07 June 2024
80	Real-time Monitoring and Control of Road Bridge Structure	Dr. Sanjukta Chakraborty	IPTIF	503000	23 February 2024 - 07 June 2024
81	High power density switched reluctance motor and drives	Dr. Vijay Muralidharan Dr. Ramkrishna Pasumarthu	IPTIF	571000	23 February 2024 - 07 June 2024
82	Development of Low-altitude Microsatellites Using Long-endurance Glider Plane Collaboration	Dr. Vijay Muralidharan	IPTIF	817000	23 February 2024 - 07 June 2024
83	Energy Efficient Distributed Estimation and Control of Networked Robots and its Implementation Architectures	Dr. Shaikshavali Chitranganti	IPTIF	782000	23 February 2024 - 07 June 2024
84	Design, Development and Control of a Multi-purpose Mobile Manipulator for Intelligent and Collaborative Manipulation Tasks	Prof. Santhakumar Mohan	IPTIF	395000	23 February 2024 - 07 June 2024

85	Design and Development of an Intervention-class Underwater Robotic Vehicle with Tilting Thrusters for Marine Applications	Prof. Santhakumar Mohan	IPTIF	290000	23 February 2024 - 07 June 2024
86	Aerial Dexterous Manipulators, Grasping and Transportation	Dr. Sneha Gajbhiye	IPTIF	378000	23 February 2024 - 07 June 2024
87	Design and development of indigenous, cost-effective Autonomous Tractor, for Indian Farming Conditions and Applications (A-TRACT)" by CDAC-Thiruvananthapuram, CDAC-Hyderabad, IIT-Palakkad and Industry (Mahindra and Mahindra, MRV Chennai)	Dr. Sneha Gajbhiye	Meity	4856000	07 February 2024 - 06 February 2027
88	Design, Synthesis and Pharmacological Evaluation of Novel Isoform-specific Histone Deacetylase (HDAC) Inhibitors as Potential Anticancer Therapeutics, via A fluoruous-tag Assisted High-throughput Synthetic Platform	Dr. Sushabhan Sadhukhan	SERB CRG	4521000	04 March 2024 - 03 March 2027
89	Condition Assessment & Management Plan (CAMP) for Periyar River Basin	Dr. Athira P.	Ministry of Jal Shakti	11500000	15 March 2024 - 14 March 2027
90	Cyber Physical Systems in Collaboration with Artificial Intelligence for Smart Agriculture Improving Energy Efficiency and Environment Safety	Dr. Satyajit Das	IPTIF TDSP	606000	23 February 2024 - 07 June 2024
91	Design, Synthesis and Pharmacological Evaluation of Novel Isoform-specific Histone Deacetylase (HDAC) Inhibitors as Potential Anticancer Therapeutics, via A fluoruous-tag Assisted High-throughput Synthetic Platform	Dr. Sushabhan Sadhukhan	SERB	4521000	04 March 2024 to 03 March 2027
92	Flexible and Accelerate Runtime Monitors for In-field Verification of Software Applications	Dr. Sandeep Chandran	IPTIF SEP	1122471	28 March 2024 -
93	Optimal control of dynamical systems with learning methods	Dr. Shaikshavali Chitraganti	IPTIF SEP	1127235	28 March 2024 -
94	Intrinsic Explainability in Deep Learning Models	Dr. Sahely Bhadra	IPTIF SEP	909560	28 March 2024 -
95	Development of interfacing circuits for single element and differential capacitive sensors	Dr. Sreenath Vijayakumar	IPTIF SEP	843628	28 March 2024 -
96	Deep Bayesian Methods for Meta-Learning	Dr. Mrinal Kanti Das	IPTIF SEP	872000	28 March 2024 -
97	Setting up a Battery Testing Facility	Dr. Vijay Muralidharan	IPTIF TFD	8303400	28 March 2024 -
98	Design and Realization of Self-Sustainable, Wearable, Non-invasive and Implantable Wireless Drug Delivery System for Intracranial Pressure Monitoring, Powered by Electromagnetic Energy	Dr. Sukomal Dey	SERB ASEAN	2321696	22 March 2024 - 21 March 2026
99	Automated focusing algorithms for fluorescence/brightfield slide imaging microscope	Dr. Vijay Muralidharan	IIITD ANUBHUTI	3500000	15 March 2024 - 14 March 2026
100	Condition Assessment & Management Plan (CAMP) for Periyar River Basin	Dr. Athira P.	Ministry of Jal Shakti	34500000	15 March 2024 - 14 March 2027
101	DEVELOPMENT OF DESIGN METHOD FOR WEB CRIPPLING STRENGTH OF CFS BEAMS	Dr. Anil Kumar M. V.	SERB CRG	2694558	12 March 2024 - 11 March 2027
102	Control of a structural system with sudden nonlinearity using the sliding mode technique	Dr. Sanjukta Chakraborty	IPTIF SEP	909560	02 April 2024 -
103	Studies on condition monitoring of electric vehicle battery packs for Indian climatic conditions	Dr. Samarjeet Chanda	Anusandhan National Research Foundation (ANRF)	5624696	21 May 2024 - 20 May 2027
104	Development of a novel cooling strategy for dry grinding and experimental investigations on its performance	Dr. Dinesh Setti	Anusandhan National Research Foundation (ANRF)	2918256	21 May 2024 - 20 May 2027

105	Design and Development of a Robotic Rubber latex Collection System	Prof. Santhakumar Mohan	Anusandhan National Research Foundation (ANRF)	6152256	31 May 2024 - 30 May 2027
106	Controlling Imperfections in Quantum Devices	Dr. Amit Kumar Pal	Anusandhan National Research Foundation (ANRF)	3430596	01 June 2024 - 31 May 2027
107	Spin-orbit Torque (SOT) assisted magnetization switching in Van der Waals (VdW) Ferromagnet above room temperature	Dr. Soham Manni	Anusandhan National Research Foundation (ANRF)	4040696	15 June 2024 - 14 June 2027
108	Design and Implementation of Artificial Intelligence Powered Internet-of-Things (IoT) Climate-Aware Health Monitoring and Disease Prediction System for Sustainable Health and Wellness Management	Dr. M. Sabarimalai Manikandan	Indian Council of Medical Research (ICMR)	1644792	24 June 2024 - 31 July 2024
109	Financial Assistance to Dr. Jibin Boban for participating in "7th CIRP Conference on Surface Integrity (CSI), Germany (15 May, 2024 to 17 May, 2024)"	Dr. Afzaal Ahmed (Dr. Jibin Boban)	Anusandhan National Research Foundation (ANRF) ITS	155639	05 August 2024 - 05 August 2024
110	Enhancing simulation of hydrological fluxes by assimilation of root zone soil moisture in integrated hydrological model	Dr. Sarmistha Singh	ISRO RESPOND	2290249	20 August 2024 - 19 August 2027
111	Durable and Sustainable Low-Carbon Cements using Local Clays and Biomass Ashes - A Local Approach to Future Cements	Dr. Athira Gopinath	IGSTC Program on Women Involvement in Science and Engineering Research (WISER) Award	3889860	30 August 2024 - 29 August 2027
112	On best approximation, orthogonality and differentiability in the space of bounded operators on Banach spaces	Dr. Jayanarayanan C. R	Kerala State Council for Science, Technology and Environment (KSCSTE)	1667000	17 August 2024 - 16 August 2027
113	Tailoring Nickel-Catalyzed Regioselective C3)-alkenylation and C(2) alkylation Reactions of Pyridines with Machine Learning Tools	Dr. Surya K (under the mentorship of Dr. Rositha Kuniyil)	WISE PDF	3822029	04 October 2024 - 03 October 2027
114	Mitigation of surface distress in bearing steel.	Dr. Kesavan D	ISRO RESPOND	3394000	27 September 2024 - 26 September 2026
115	Surrogate Safety Measures for Predictive Safety Intervention for Safety on Inconsistent Roads with Heterogeneous Traffic	Dr. B. K. Bhavathrathan	IPTIF TDSP	1307000	19 October 2024 - 18 October 2025
116	Erasure Coding for Distributed Computing	Dr. Nikhil Krishnan M.	SGA	500000	11 November 2024 - 08 November 2026
117	Design, Development and Testing of Meta-Sandwich Structures for Impact Applications	Dr. Nelson Muthu	SGP	3400000	14 November 2024 - 13 May 2026
118	Experimental Investigations on the Interplay between Magnetic Frustration, Charge Density Wave, and Superconductivity in Kagome Lattices	Dr. Gayathri V (under the mentorship of Dr. Soham Manni)	WISE PDF	3824080	29 November 2024 - 28 November 2027
119	Exploring the role of opportunistic fungal infection on the immunoregulatory pathways that transform host immunity from protection to pathogenesis in filarial patients: relevance to therapeutic intervention of bancroftian filariasis	Dr. Suprabhat Mukherjee, Kazi Nazrul University, Asansol, West Bengal	DBT	0	25 September 2024 - 24 September 2027
120	Design and Development of Implantable Medical Device with Capsule Endoscopic MIMO Antennas utilizing RF Energy Harvesting for Biotelemetry Applications	Dr. Sukomal Dey	iHUB Divyasampark and IIT Roorkee.	5394504	24 December 2024 - 23 December 2025
121	Design and Development of Supramolecular Fluorescent Sensors Array for Detection and Discrimination of Emerging Organic Contaminants in Water	Dr. Shanmugaraju Sankarasekaran	DST Indo-Japan	1458000	20 December 2024 - 19 December 2026
122	Engineering porous silicon membranes for water desalination	Dr. Revathy Padmanabhan	IPTIF UYARE	1000000	15 January 2025 - 14 January 2026

123	Setting up Electro-Magenetic Interference and Electro-magnetic Susceptibility (EMI/EMS) testing facility at IIT Palakkad	Dr.Vijay Muralidharan	IPTIF	35000000	18 March 2025- 17 March 2026
124	Engineering porous silicon towards the development of electrochemical immunosensor device for the detection of biomarker for acute brain injury	Dr. Abdul Rasheed P.	IPTIF UYARE	600000	24 March 2025 - 23 March 2026
125	Physics Aware AI/ML Tool for Spatiotemporal Root Zone Soil Moisture Estimation	Dr. Sarmistha Singh	IPTIF	1820000	05 March 2025 - 04 September 2026
126	Frustrated Lewis Pair (FLP) for Catalytic Activation of Carbon Dioxide	Dr. Debabrata Dhara	Seed Grant Add- On (SGA)	500000	11 April 2025 - 05 January 2028

Total Budget	826550223
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Consultancy Projects - Underway

Sl. No.	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration
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Consultancy Projects - Underway

Sl. No.	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration
1	Conceptualize, design, plan and execute the construction of engineering field testing platform for performance assessment of sanitation technologies	Dr. Praveena Gangadharan (Project Director, GSCOE)	TECHIN- EFT	4956000	15 March 2024 onwards
2	Few-shot learning for Crop Classification from Satellite Imagery	Dr. Narayanan (CK) C Krishnan	CROPIN TECHNOLOGY SOLUTIONS PRIVATE LIMITED	849600	01 July 2024 - 30 June 2025
3	Development of Rotor Balancing and Condition Monitoring Software	Dr. Sagi Rathna Prasad	Enmaz Engineering Services Pvt. Ltd., Bengaluru	600000	01 January 2025 - 01 June 2025
4	Compiler Optimization and LLVM	Dr. Unnikrishnan C	Multicoreware Inc., CA	180000	16 December 2024 - 16 June 2025
5	Flexural toughness testing and certification of two grades of concrete with Steel fibers manufactured by Precision Drawell	Dr. C V Veena Venudharan	Precision Drawell Pvt. Ltd.	438960	25 January 2025 - 25 May 2025
6	Design Review/Guidance - Development of Controllable Pitch Propeller (CPP) Actuation Mechanism	Dr. Mayank Tiwari	M/s. Triveni Engineering & Industries, Mysuru	531000	15 February 2025 - 14 July 2025
7	Testing of ACM samples as per IOCL specification	Dr. Nelson Muthu	M/s. Indian Oil Corporation Limited, Kochi	587640	20 March 2025 - 20 July 2025
8	Characterization of CRMB 60	Dr. Veena Venudharan	M/s. Shivalaya Construction Company Pvt. Ltd., New Delhi	35400	24 March 2025 - 08 April 2025
9	Testing of Materials and Design of Mixes for the Construction of Mixed use residential cum commercial building including Allied works of KHSB Marine eco-city plot A phase 1 at marine drive Ernakulam Kerala	Dr. Athira Gopinath	Dee Vee Projects Limited	417720	31 March 2025 - 30 July 2025
10	GSCOE Analytical and Testing Charges	Dr. Praveena Gangadharan	GSCOE Testing		01 March 2025 onwards
11	Ground improvement works using vibro stone columns (top feed method) for 22MLD desalination plant at Mundra, Gujarat	Dr. Sudheesh T K	Keller Ground Engineering India Private Limited,	236000	19 March 2025 - 18 August 2025
12	Design vetting of a RCC building at IOCL Cochin Terminal, Irumpanam, Kochi	Dr. Gokulnath C	Indian Oil Corporation Limited	59000	17 April 2025 - 01 May 2025
13	Testing of Acoustic properties of SINICON SAND	Dr. Anoop Akoorath Mana	Sinicon Controls Private Limited	15482	22 April 2025 - 30 April 2025
14	Removal of illegal dyes from Indian chilli via developing a novel low-cost adsorbent material	Dr. Mintu Porel	Plant Lipids Private Limited	2100000	01 November 2024 - 30 April 2026
Total				11006802	