

Sponsored Projects

Sl. No.	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration
1	Low-cost Medical Ventilator - Mechanical	Dr. Afzaal Ahmed	Covid 19 Project funded by Federal Bank	600000	April 2020 - August 2020
2	Low-cost Medical Ventilator - Electrical	Dr. Sreenath V.	Covid 19 Project funded by Federal Bank	600000	April 2020 - August 2020
3	Pulse Plethysmograph for ICUs	Prof. Vinod A. Prasad	Covid 19 Project funded by Federal Bank	600000	April 2020 - August 2020
4	Automated Lung Ultrasound for COVID-19 Screening and Monitoring	Dr. Mahesh R. Panicker	Covid 19 Project funded by Federal Bank	600000	April 2020 - August 2020
5	Low-cost Test Kit for Fast Screening of COVID-19 Patients	Dr. Shanmugaraju Sankarasekaran	Covid 19 Project funded by Federal Bank	500000	April 2020 - August 2020
6	Real-time Crowd Sensing using Mobile Phone tracking	Dr. Lakshmi Narasimhan Theagarajan	Covid 19 Project funded by Federal Bank	600000	April 2020 - August 2020
7	Learn at Home	Dr. Dinesh Setti	Western India KINFRA Ltd - CSR	322926	01 February 2022 - 31 March 2022
8	Creation of selected geo-spatial open data set for Pudukkottai Grama Panchayat using Community Participatory Mapping	Dr. Athira P.	Western India KINFRA Ltd - CSR	242927	01 February 2022 - 31 March 2022
9	Porous transition metal doped TiO ₂ catalysts for the thermal oxidation of volatile organic compounds	Dr. Dinesh Jagadeesan	Western India KINFRA Ltd - CSR	352926	01 February 2022 - 31 March 2022
10	Diagnosis tool for Breast Cancer Detection using Novel Microwave Medical Imaging (MMI) Techniques followed by Method Validations on the Concealed Object Detections - a Prototype	Dr. Sukomal Dey	Western India KINFRA Ltd - CSR	322926	01 February 2022 - 31 March 2022
11	Design of heterogeneous catalysts to improve the selectivity of high-temperature, gas- phase reactions	Dr. Dinesh Jagadeesan	SERB Ramanujan Fellowship	1,365,654.00	2013 - 2018
12	Graphene and other 2D materials base spintronics and topological insulators	Dr. Jayakumar Balakrishnan	DST INSPIRE Fellowship	1031488	2014 - 2019
13	On the Role of Proton Transfer in Triggering Disulfide Bond Reductions in Biological Systems- A Computational Approach	Dr. Padmesh A.	SERB Start Up Research Grant	1101613	2016 - 2019
14	Improving water availability in hilly rain shadow regions through conservation measures	Dr. Athira P.	DST INSPIRE Fellowship	1248598	2015 - 2021
15	On positive solutions for classes of nonlinear elliptic boundary value problems	Dr. Lakshmi Sankar K.	DST INSPIRE Fellowship	1691680	2016 - 2021
16	Structural design of Crash Guard Fencing	Dr. Anil Kumar M. V.	Vigilance and Forest Intelligence, Thiruvananthapuram	84,960	08 August 2018 - 08 October 2018
17	Performance evaluation of a cryogenic coolant through a modified tool holder in machining of Inconel 625 super alloy	Dr. Dupadu Chakradhar	SERB ECRA	1483160	06 November 2017 - 05 November 2020
18	Pulse Oximeter Design and Development	Prof. Vinod A. Prasad	ITI Limited Palakkad	275000	May - June 2021
19	An automated lung ultrasound workflow for diagnostic assistance in COVID-19 and beyond	Dr. Mahesh R. Panicker	SERB CRG Covid 19 Project	608960	05 August 2020 - 04 August 2021
20	Performance of mechanically stabilised reinforced soil structures with locally available marginal lateritic backfills	Dr. Divya P. V.	Techfab India Industries Ltd., Mumbai	1105046	01 June 2020 - 01 January 2022
21	Energy positive microbial osmotic- electro desalination cell for wastewater treatment and high- quality water recovery	Dr. Praveena Gangadharan	SERB- EMEQ (Empowerment and Equity Opportunities for Excellence in Science)	3994500	02 March 2019 - 01 March 2022

22	Reversible Diradical Mediated Self-Assembly Formation of Discrete Organic Cages for the Construction of Stimuli-Responsive Supramolecular Functional Materials	Dr. Shanmugaraju Sankarasekaran	SERB- EMEQ (Empowerment and Equity Opportunities for Excellence in Science)	3763000	16 March 2019 - 15 March 2022
23	Complex network analysis of granular materials	Dr. Krishnaraj K P	DST Inspire	700000	01 November 2021 - 30 April 2022
24	Regional Road Resilience using Landslide Susceptibility model	Dr. Rakesh J. Pillai	Coalition for Disaster Resilience Infrastructure (CDRI)	732000	10 May 2021 - 09 May 2022
25	Soot Modelling and measurements in a counterflow diffusion flame	Dr. Krishna Sesha Giri	SERB- ECRA (Early Career Research Award)	4655040	16 May 2019 - 15 May 2022
26	Identification of the Substrates of DHHC Palmitoyl Acyltransferases by Rational Design of Trifunctional Probe and Exploration of Protein S- Palmitoylation	Dr. Sushabhan Sadhukhan	SERB- ECR (Early Career Research)	3312452	15 December 2018 - 14 June 2022
27	Investigation of a portable, affordable and self-guided bedside ultrasound system for tissue and blood velocity imaging	Dr. Mahesh Raveendranatha Panicker	SERB- ECRA (Early Career Research Award)	4901830	30 March 2019 - 29 June 2022
28	DST INSPIRE Fellowship (Transferred from Chennai Mathematical Institute)	Dr. Parangama Sarkar	DST INSPIRE	1339329	01 September 2016 - 31 August 2022
29	MoU with Bexel India Consulting LLP	Dr. Senthilkumar V.	Bexel India Consulting LLP	216000	13 October 2021 - 12 October 2022
30	Design and Development of RF Front-end (RFFE) Passive Components for Indian Fifth Generation (5G) Cellular Mobile Network Applications from Microwave to Millimeterwave	Dr. Sukomal Dey	SERB- ECRA (Early Career Research Award)	4211530	14 May 2019 - 13 October 2022
31	Ocean Acoustic Data Archival and Analytics Framework	Dr. Sahely Bhadra	Naval Research Board	2899657	27 October 2021 - 26 October 2022
32	Integrating wastewater treatment to groundwater softening and defluoridation using microbial desalination cell	Dr. Praveena Gangadharan	SERB- ECRA (Early Career Research Award)	3519480	15 May 2019 - 14 November 2022
33	Behaviour and Design of CFS Channel compression members with partial LIP Stiffened Flanges	Dr. Anil Kumar M. V.	SERB- CRG (Core Research Grant)	3426691	15 May 2019 - 14 November 2022
34	SERB International Travel Support (ITS) - IEEE World Congress on Computational Intelligence (IEEE WCCI 2022), Italy	Dr. Narayanan C. Krishnan	SERB ITS	113673	18 July 2022 - 30 November 2022
35	An Algorithm for Automated Identification of Geometric Inconsistencies on Road Networks by Employing Cluster-Calibrated Speed Prediction Models	Dr. B. K. Bhavathrathan	SERB SRG	2659820	19 December 2020 - 18 December 2022
36	High- Speed Online Monitoring of Software Applications	Dr. Sandeep Chandran	SERB SRG	2259790	19 December 2020 - 18 December 2022
37	HARKAL: Hardware Accelerated Robust Kernel Adaptive Learning	Dr. Subrahmanyam Mula	SERB SRG	1724280	19 December 2020 - 18 December 2022
38	Mapping the folding/misfolding mechanism of SOD1 using single molecule fluorescence spectroscopy	Dr. Supratik Sen Mojumdar	SERB SRG	2870000	22 December 2020 - 21 December 2022
39	Modeling Latency In Cell-Free Massive MIMO To Enable URLLC In 5G Cellular Systems	Dr. Jobin Francis	SERB SRG	1100950	22 December 2020 - 21 December 2022
40	Characterizing quantum computers: Entanglement in noisy quantum error correcting codes	Dr. Amit Kumar Pal	SERB SRG	2266771	23 December 2020 - 22 December 2022
41	Energy-Efficient Multicore Programmable Accelerator for ULP massive edge computing	Dr. Satyajit Das	SERB SRG	1624980	25 December 2020 - 24 December 2022
42	An Accurate and Efficient Parallel R-C Digitizer for Moisture Sensing	Dr. Sreenath V.	SERB SRG	2805440	30 December 2020 - 29 December 2022
43	Bio-inspired Hybrid Underwater Vehicle for Ocean Observations	Dr. Santhakumar Mohan	SERB Core Research Grant (CRG)	2838284	17 July 2019 - 16 January 2023
44	Research Methodology for Construction Management	Dr. Senthilkumar V.	Global Initiative of Academic Networks (GIAN)	912000	30 January 2023 - 10 February 2023

45	Estimation of the thermal contact conductance of realistic spacecraft bolted joints	Dr. Samarjeet Chanda	ISRO RESPOND Programme, Department of Space	3044000	19 February 2021 - 18 February 2023
46	Diffuse interface immersed boundary/finite volume framework for compressible viscous flows	Dr. Ganesh Natarajan	SERB MATRICS	660000	21 February 2020 - 20 February 2023
47	Oriented Diameter of Graphs	Dr. Deepak Rajendraprasad	SERB MATRICS	660000	21 February 2020 - 20 February 2023
48	Understanding the role of protein S-palmitoylation, the only reversible protein lipidation, in regulating mitochondrial dynamics and functioning	Dr. Sushabhan Sadhukhan (NDPF - Dr. Anupama Binoy)	SERB NPDP	2025600	09 March 2021 - 08 March 2023
49	Multiscale modelling of chromatin assembly and dynamics	Prof. Ranjith Padinhateeri, Biosciences and Bioengineering, Indian Institute of Technology Bombay	DST National Supercomputing Mission (NSM)	2426520	06 April 2021 - 05 April 2023
50	An investigative Study on the Temporal Geometrical Damage Assessment through LIDAR - A Case of Surface and Profile Damage Detection in Bridge Infrastructure	Dr. Senthilkumar V	Kerala Highway Research Institute (KHRI)	396000	01 November 2022 - 30 April 2023
51	Spin transport in 2D material(graphene)/ perovskites(LSMO) heterostructures	Dr. Jayakumar Balakrishnan	DST-NanoMission	540361	2016 - 2019
52	Mechanistic correlation between homeostatic pressure and metastatic competence in cancer cells	Dr. Bibhu Ranjan Sarangi	SERB ECRA	537147	15 July 2017 - 14 January 2021
53	Sustainable and resilient environment friendly solutions for hill road design through a pilot study on Mannarkkad - Chinnathadagam Road	Prof. Tom V. Mathew	Kerala PWD	2498760	12 February 2020 - 11 March 2021
54	Synthesis, characterization and evaluation of TiO ₂ - polymer nanocomposite for photocatalytic oxidation of ethylene	Dr. Dinesh Jagadeesan	Defence Food Research Laboratory (DFRL)	945000	06 September 2019 - 05 September 2021
55	Analytical and Experimental Investigation on Frequency Dependent Linear Control Algorithm for Performance Enhancement of Real Life Civil Structures under Random Excitation	Dr. Sanjukta Chakraborty	SERB SRG	2156240	18 December 2019 - 17 December 2021
56	Deep learning and Reinforcement learning: New algorithms with improved interpretability, scalability, reliability and efficiency	Dr. Chandra Shekar Lakshminarayanan	SERB SRG	1566200	30 December 2019 - 29 December 2021
57	Multi-functional optically-sensitive devices with high efficiencies using perovskites	Dr. Revathy Padmanabhan	SERB SRG	3087770	02 January 2020 - 01 January 2022
58	Bayesian Deep Models for Efficient Privacy - Aware Learning in the Era of Big Data and Personalization	Dr. Mrinal Kanti Das	SERB SRG	1780900	04 February 2020 - 03 February 2022
59	ZIGBEE based wireless sensor network for landslide	Dr. Albert Sunny	ISRO RESPOND Programme, Department of Space	1552000	21 March 2020 - 20 March 2022
60	Feedback control of stochastic hybrid systems with state- dependent noise	Dr. Shaikshavali Chitraganti	SERB MATRICS	660000	22 March 2019 - 21 March 2022
61	Ultra-precision machining of brittle materials - Material micro-structural perspective and cutting edge radius effect	Dr. Afzaal Ahmed	SERB SRG	3165190	03 December 2019 - 02 June 2022
62	Linkage of Large Scale Ocean-Atmospheric Phenomena on Hydroclimatic Extremes in India	Dr. Sarmistha Singh	SERB SRG	1973180	03 December 2019 - 02 June 2022
63	Drought preparedness in Kerala: A comprehensive assessment with respect to climate change	Dr. Subhasis Mitra	Kerala State Council for Science, Technology & Environment	1288000	18 December 2019 - 18 June 2022
64	Low voltage MEMS actuation using Negative Capacitance	Dr. Arvind Ajoy	SERB SRG	2773690	21 December 2019 - 20 June 2022
65	Design and Development of a Composite Heat Sink based Battery Thermal Management System for Indian Electric Vehicle Industry	Dr. Samarjeet Chanda	SERB SRG	3070370	26 December 2019 - 25 June 2022

66	Development of Failure Limiting Diagram For Surface Modified Wheel-rail and Wind-turbine Bearing Materials Through Rolling Contact Fatigue Studies	Dr. D. Kesavan	SERB EMEQ	4927120	27 November 2019 - 26 November 2022
67	Analysis of Evacuation Options considering Citizen Mobility Patterns and Disaster Vulnerability in a Himalayan Region Transportation Network	1. Dr. B. K. Bhavathrathan 2. Dr. Manoj M (Asst. Prof. IIT Delhi) 3. Dr. Rahul T. M. (Asst. Prof., IIT Ropar)	National Mission on Himalayan Studies (NMHS)	1353836	10 December 2019 - 09 December 2022
68	A multimodal brain-machine interface-based neuro-enhancement system for retarding the decline of cognitive and motor functions in the early-stages of Dementia, Stroke and Parkinson's Disease patients	Dr. Mahesh R. Panicker	DST CSRI	6717160	18 January 2020 - 17 January 2023
69	Credit access and employment opportunities for women with disabilities	Dr. Amrita Roy	ICSSR	300000	23 March 2022- 22 March 2023
70	An Environmentally Benign and Sustainable Strategy to Degrade Plastic Wastes by Novel Immobilized Dual-enzyme Chimera and Protein Engineering	Dr. Sushabhan Sadhukhan	KINFRA CSR (22-23)	150000	23 February 2023 - 22 March 2023
71	Procurement of educational kits for needy students through various outreach activities of IIT Palakkad	Dr. Bibhu Ranjan Sarangi & Dr. Sarath Sasi	KINFRA CSR (22-23)	90000	23 February 2023 - 22 March 2023
72	Design, Development and Validation of Smart Weather Station for Crop Yield Enhancement	Dr. Sreenath V. & Dr. Satyajit Das	KINFRA CSR (22-23)	270000	23 February 2023 - 22 March 2023
73	Fabrication of Sustainable Products From Used Paper by 3-D Printing	Dr. S. Kanmani Subbu & Dr. Samarjeet Chanda	KINFRA CSR (22-23)	300000	23 February 2023 - 22 March 2023
74	Optical Sensor Network for Detecting Elephant Movement	Dr. Arvind Ajoy	KINFRA CSR (22-23)	350000	23 February 2023 - 22 March 2023
75	Low-cost multipurpose material for removal of toxic pollutants from environment towards developing a healthy life	Dr. Mintu Porel	KINFRA CSR (22-23)	140000	28 February 2023 - 27 March 2023
76	Study of approximation theoretic properties of the space of compact operators on Banach spaces	Dr. Jayanarayanan C. R.	SERB MATRICS	660000	10 July 2018 - 09 October 2021
77	Framework and Compiler for Social Network Analysis	Dr. Unnikrishnan C.	DST National Supercomputing Mission (NSM)	2334000	12 March 2021 - 30 June 2023
78	Study on Novocrete Stabilization Technology For Pavement Construction	Dr. Veena Venudharan	Nisco Builders and Developers Private Limited	849600	01 August 2021 - 01 August 2023
79	A novel class of functionally controlled macromolecules with tunable properties for material and biomedical applications	Dr. Mintu Porel	SERB- Ramanujan Fellowship	3800000	13 August 2018 - 12 August 2023
80	Towards Automating Deterministic Bug-reproduction during Post-silicon Validation	Dr. Sandeep Chandran	Semiconductor Research Corporation	USD 29,880	01 September 2020 - 31 August 2023
81	Resilient reinforced soil structures for the sustainable stabilization of steep slopes and landslide mitigation measures	Dr. Divya P. V.	Kerala Infrastructure Investment Fund Board (KIIFB)	7487280	01 September 2021 - 01 September 2023
82	Development of Membrane-confined Stem Grouted Piles and their Behaviour under Uplift Loading	Dr. Sudheesh T. K.	SERB CRG	3041700	07 March 2020 - 06 September 2023
83	Real-Time Air Quality and Weather Monitoring System for IIT Palakkad Campus	Dr. Praveena Gangadharan	IIT Palakkad	14596658	20 March 2021 - 19 September 2023
84	A Compressed Sensing based Framework for Physical Layer Security in Large Dimensional Wireless Communication Systems	Dr. Lakshmi Narasimhan Theagarajan	DST INSPIRE Fellowship	3500000	28 September 2018 - 27 September 2023
85	Raaz: A cryptographic library with formal guarantees	Dr. Piyush P. Kurur	DST ICPS	2268000	26 July 2019 - 30 September 2023
86	Discovery, single crystal synthesis and investigation of anisotropic physical properties of novel spin-orbit materials	Dr. Soham Manni	DST INSPIRE Fellowship	3500000	15 October 2018 - 14 October 2023

87	Design and Development of a new Sitting- Type Lower Limb Rehabilitation Robot	Dr. Santhakumar Mohan	Council of Scientific and Industrial Research (CSIR)	2210000	01 November 2020 - 31 October 2023
88	Robotics and Automation in Agriculture	Dr. Santhakumar Mohan & Prof. Laxmidhar Behera (from IIT Kanpur side)	Ministry of Electronics and Information Technology (MeitY)	5184000	01 November 2020 - 31 October 2023
89	Simulation Studies of electronic/photonic band gap materials for microwave applications	Dr. Sukomal Dey	ISRO RESPOND Programme, Department of Space	1368000	04 December 2021 - 03 December 2023
90	Design and fabrication of inorganic electrochromic devices using layer engineering	Dr. Revathy Padmanabhan	ISRO RESPOND Programme, Department of Space	2470000	07 December 2021 - 06 December 2023
91	Finding the Progenitors of Carbon Enhanced Metal-Poor Stars	Dr. Projjwal Banerjee	SERB SRG	1994335	13 December 2021 - 12 December 2023
92	Design and Synthesis of a Novel Class of Sequence-defined Macrocycles with Modular Post-synthetic Modification for Material and Biomedical Applications.	Dr. Mintu Porel	SERB CRG	5364832	21 December 2020 - 20 December 2023
93	Magneto transport studies in 2D materials	Dr. Jayakumar Balakrishnan	SERB CRG	4528383	28 December 2020 - 27 December 2023
94	Study of Thermoregulation and Ventilation in Termite Mound Structures: Biomimetic Design Concepts for Passive Cooled Buildings	Dr. Pramod Kuntikana	SERB SRG	3258030	29 December 2021 - 28 December 2023
95	Design and Development of a Software Solution for Enhanced Monitoring of Future Power System with High Renewable and Power Electronics Penetration	Dr. Manas Kumar Jena	SERB SRG	2905950	30 December 2021 - 29 December 2023
96	Solid state welding of Ti alloy and Ni alloy metal prints for aerospace, energy and health sectors	Dr. Buchibabu Vicharapu	SERB SRG	3259870	31 December 2021 - 30 December 2023
97	Mesoscale modeling of amorphous solids for large scale simulations	Dr. Pinaki Chaudhuri (Associate Professor, Physics, The Institute of Mathematical Sciences, Chennai)	DST National Supercomputing Mission (NSM)	4581000	24 March 2021 - 31 December 2023
98	Design and Development of an intelligent underwater vehicle with a manipulator for offshore oil/gas and other marine applications.	Dr. Santhakumar Mohan	Naval Research Board	4526850	25 January 2021 - 24 January 2024
99	An automated fluorescence slide imaging microscope for portable and low cost applications	Dr. Vijay Muralidharan	SERB SRG	3125350	28 January 2022 - 27 January 2024
100	Reinforcement corrosion in bridge bent caps - fatigue response: An experiment and analytical study	Dr. Madhu Karthik M	SERB CRG	3422232	10 March 2021 - 09 March 2024
101	Robust Multi-view Learning for Extreme Events Detection and Prediction in Time Series Data	Dr. Sahely Bhadra	SERB CRG	3617337	25 March 2021 - 24 March 2024
102	Production of biofertilizers from source separated urine	Dr. Shanmugaraju Sankarasekaran	Department of Science & Technology - Science For Equity Empowerment and Development (SEED)	8923790	31 March 2022 - 30 March 2024
103	Utilization of partially treated grey water and C&D waste for production of low-cost modular toilet units and other living units	Dr. Shanmugaraju Sankarasekaran	Department of Science & Technology - Science For Equity Empowerment and Development (SEED)	6812046	31 March 2022 - 30 March 2024
104	Theoretical Modelling Of High Pressure Chemistry & Study of Unusual Molecular Systems	Dr. Priyakumari C P	DST INSPIRE Fellowship	1394192	01 April 2019 - 31 March 2024
105	Pilot lab course on NPTEL & Development of Kits	Dr. Arvind Ajoy	IIT Madras	500000	July 2022 - July 2023
106	Isolated Transition Metal Atoms on Defect- Engineered Graphene: Synthesis and Catalytic Oxidation of Indoor Volatile Organic Compounds	Dr. Dinesh Jagadeesan	SERB CRG	3767070	05 February 2020 - 04 August 2023

107	Design and Implementation of AI powered Autonomous Underwater Vehicle (AUV) and IoT Enabled Underwater Acoustic Sensor Networks	Dr. M. Sabarimalai Manikandan & Prof. P. R. Sahu, School of Electrical Sciences, IIT Bhubaneswar	IITG TIDF	2080000	21 February 2022 - 20 February 2024
108	Design and Emulation of Electric Vehicle Permanent Magnet Machines	Dr. Arun Rahul S.	SERB International Research Experience (SIRE)	1304895	01 September 2023 - 31 December 2023
109	CSR Funds from Tata AutoComp	Dr. Sarath Sasi	TM Automotive Seating Systems Private Limited	3358000	01 January 2024 - 31 March 2024
110	Communication-Efficient Gradient Aggregation for Hierarchical Networks	Dr. Anoop Thomas Indian Institute Of Technology, Bhubaneswar	SERB CRG	1058222	30 January 2024 - 29 January 2024
1	CSR Funds from M/s. Redpine Signals India Pvt. Ltd., Hyderabad - 2022	Dr. M. Sabarimalai Manikandan & Dr. Subrahmanyam Mula	Redpine Signals India Pvt. Ltd., Hyderabad	1064745	September 2022 - September 2024
3	Design and Fabrication of an LED-based solar simulator with integrated electrical and optical measurement capability	Dr. Arvind Ajoy	DST (SERD 2019 - Solar Energy Research & Development)	6540601	15 April 2021 - 14 April 2024
4	Study of the interaction between synthetic sequence-defined macromolecules and lipid-membrane towards developing antibacterial and anticancer drug	Dr. Mintu Porel	Scheme for Transformational and Advanced Research in Sciences (STARS) - Ministry of Human Resource Development	9968000	15 May 2020 - 14 May 2024
5	DHR-GIA Proposal: Development of an Affordable Wearable IoT-GPS Enabled Intelligent Vital Signs Monitor for Smart Health Monitoring Services	Dr. Ram Bilas Pachori, Professor, IIT Indore	Indian Council of Medical Research (ICMR)	3035990	20 June 2022 - 19 June 2024
6	MoU with Kerala Highway Research Institute	Dr. Sudheesh T. K. (till 11.09.2022) & Dr. B. K. Bhavathrathan (from 12.09.2022)	Kerala Highway Research Institute (KHRI)	6000000	13 July 2021 - 12 July 2024
8	Design and Development of Cost-Effective Floating-Solar Energy Generation Technologies and Infrastructure for Achieving Nearly Zero-Energy Villages	Dr. Srinivasa Bhaskar Karanki, IIT Bhubaneswar	DST (SERD 2019 - Solar Energy Research & Development)	4521200	14 September 2021 - 13 September 2024
10	Dispersion Controlled in Silico Catalyst Design for the Selective Hydroarylation Reaction	Dr. Rositha Kuniyil	SERB SRG	3133844	26 September 2022 - 25 September 2024
11	A Molecular Dynamics Perspective on the Mechanism of Dioxxygen Activation	Dr. Shyama Ramakrishnan (Mentored by Dr. Padmesh A.)	KSCSTE Back-to-Lab Post Doctoral Fellowship	1338000	01 November 2022 - 31 October 2024
12	Design and Development of Planar Tuneable RF Filters for 5G Communication Systems	Dr. Mary Rani Abraham (Mentored by Dr. Sukomal Dey)	KSCSTE Back-to-Lab Post Doctoral Fellowship	1338000	01 November 2022 - 31 October 2024
13	Towards Building Quantity-Rich Knowledge Bases	Dr. Koninika Pal	SERB SRG	2071870	09 November 2022 - 08 November 2024
14	Securing Deep Neural Networks against Adversarial Attacks in Medical Imaging	Dr. Vivek Chathurvedi	IHUB NTIHAC Foundation, IIT Kanpur	1303520	07 December 2021 - 06 December 2024
15	Sugar tailored NIR emitting fluorescent probes for biomedical applications	Dr. Shimi M. (mentored by Dr. Mintu Porel)	SERB National Post- Doctoral Fellowship	2025600	12 December 2022 - 11 December 2024
16	Study of skein algebras through quantization of Poisson algebras	Dr. Arpan Kabiraj	SERB SRG	1278662	09 January 2023 - 08 January 2025
17	Biomolecular characterization of a novel putative intracellular steroid hormone-binding receptor from Wuchereria bancrofti for the chemotherapeutic intervention of bancroftian filariasis	Dr. Suprabhat Mukherjee, Department Of Animal Science, Kazi Nazrul University	SERB CRG	108300	24 January 2022 - 23 January 2025
18	Multiscale Modeling of Ferroelectrics for Negative Capacitance Applications	Dr. Arvind Ajoy	SERB MATRICS	660000	18 February 2022 - 17 February 2025

19	Factorizing Matrices Under Structural Constraints	Dr. Lakshmi Narasimhan Theagarajan	SERB MATRICS	660000	21 February 2022 - 20 February 2025
20	On exact results in generalized Sachdev-Ye-Kitaev models	Dr. Prithvi Narayan P	SERB MATRICS	660000	23 February 2022 - 22 February 2025
42	A novel chemical proteomics approach to elucidate the mechanism of action of (-Epigallocatechin-3- Gallate (EGCG)), the major green tea polyphenol using Strategic Bioorthogonal Probe, and improving the bioavailability of EGCG	Dr. Sushabhan Sadhukhan	Council of Scientific and Industrial Research (CSIR)	1100000	02 September 2021 to 01 September 2024
43	Study of Impact of Biodiversity in the pest control management of rice based agroecosystem	Dr. Merlin Lopez	DST Women Scientist A	2962272	30 September 2022 - 31 January 2025
44	Formal Analysis and Verification of Redundancy Management Logic for Inertial Navigation Processing Systems	Dr. Jasine Babu	ISRO RESPOND	1884520	23 March 2023 - 22 March 2025
45	CSR Funds from M/s. Redpine Signals India Pvt. Ltd., Hyderabad - 2023	Dr. M. Sabarimalai Manikandan	Redpine Signals India Pvt. Ltd., Hyderabad	810704	23 March 2023 - 22 March 2025
52	Tribal languages in Palakkad: Moving Beyond Documentation to Support Reclamation	Dr. Reenu Punnoose	ICSSR	1177500	28 March 2023 - 27 March 2025
Total Budget				248042027	

Consultancy Projects - Completed

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

Sl. No.	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration
1	Mix design for grade M15 Dry Lean Concrete mix	Dr. Madhu Karthik M.	Garrison Engineer (P) AF Sular, MES, Sular	46,550	30 October 2017 - 15 December 2017
2	Soil Investigation for Permanent Campus of IIT Palakkad	Dr. Sudheesh T. K. & Dr. Divya P. V.	Central PWD	525336	August 2018 - September 2018
3	Review of lateral capacity of pile	Dr. Sudheesh T. K.	Furnace Fabrica India Ltd.	28,320	21 August 2018 - 07 September 2018
4	Vetting of Structural Design of Bus Terminal (AMRUT Urban Transport) for Palakkad Municipality	Dr. Anil Kumar M. V.	Palakkad Municipality	77,880	30 July 2018 - 28 September 2018
5	Vetting of Design submitted by Durafloor Concrete Solutions for Fibre Reinforced Flooring	Dr. Sunitha K. Nayar	Durafloor Concrete Solutions LLP	155760	14 January 2019 - 28 January 2019
6	Review of Soil Report	Dr. Sudheesh T. K.	Furnace Fabrica India Limited	25,488	28 January 2019 - 11 February 2019
7	Vetting of Structural Design (Improved Design of Eranholi Bridge)	Dr. Anil Kumar	Ernad Engineering Enterprises	113280	28 March 2019 - 28 May 2019
8	Vetting of Structural Drawings (Flyover at Edappal Junction)	Dr. Anil Kumar	Ernad Engineering Enterprises	283200	08 April 2019 - 08 June 2019
9	Proof Checking of 40m Girder and Deck Slab: Flyover at Vytilla	Dr. Anil Kumar M. V.	PWD, Kerala Government	106200	June 2019 - July 2019
10	Vetting of Detailed Design of Viaduct from 1+786 to 2+013 along Thiruvalla Bypass	Dr. Anil Kumar M. V.	E K K Infrastructure Limited	141600	03 July 2019 - 03 September 2019
11	Checking and Vetting of Design Solution of Reinforced Flooring, done by Flatworx Consulting LLP	Dr. Sunitha K. Nayar	Flatworx Consulting LLP	155760	03 September 2019 - 10 September 2019
12	BPCL Cross Country Pipeline: Study on Ground Improvement for the Development of Cochin Seaport- Airport Road Phase-II	Dr. Divya P. V.	BPCL	236000	22 November 2019 - 20 December 2019
13	RWSS to Pudukkad, Parappurkkara and Adjoining Panchayaths - Implementation of pipe line near Railway bridge at Kurumali, Rapal by HDD Method	Dr. Sudheesh T. K.	Kerala Water Authority	30,090	February 2020 - March 2020
14	Optimization of Production & Transmission - WSS to Pavaratty & Mullassery Panchayaths in Chavakad Thaluk - Supplying, Laying & Commissioning of 300/250/200 mm DI K9 gravity main - Railway crossing at Brahmakulam - Soil exploration by taking 2 nos. trial bores	Dr. Sudheesh T. K.	Kerala Water Authority	30,090	February 2020 - March 2020
15	STP Water Testing	Dr.Praveena Gangadharan	Builtech Avenue Apartment Owner's Association	4,000	13 February 2020 - 04 March 2020
16	Structural stability check of flag mast for Naval Academy, Ezhimala	Dr. Anil Kumar M. V.	Garrison Engineer (Maint) Ezhimala	283200	04 January 2020 - 31 March 2020
17	Consultancy for Design and Vetting of Fibre reinforced concrete (FRC) and Mesh reinforced concrete (RC) Flooring	Dr. Sunitha K. Nayar	IIT Madras	240720	17 March 2020 - 17 April 2020
18	Soil investigation and structural stability for Sebastian indoor stadium, Edava, Thiruvananthapuram	Dr. Madhu Karthik M.	Kerala Infrastructure Investment Fund Board	708000	01 April 2020 - 30 May 2020
19	Brainwave- based Driver Drowsiness Detection System	Prof. Vinod A. Prasad	UVJ Technologies Pvt. Ltd.	1200000	01 January 2019 - 30 June 2020
20	Soil Investigation for existing soil at Runway Basic Strip - Calicut International Airport (Phase 1)	Dr. Sudheesh T. K.	Airports Authority of India	455126	18 August 2020 - 19 September 2020
21	Soil Investigation for existing soil at Runway Basic Strip - Calicut International Airport (Phase 2)	Dr. Sudheesh T. K.	Airports Authority of India	195408	08 September 2020 - 07 October 2020
22	Design and development of a multi-purpose ground based mobile manipulator	Dr. Santhakumar Mohan	Autodesk Inc.	88,500	November 2020 - December 2020
23	Checking/ Vetting the Structural Design/ Drawings proof of the proposed 300 bedded hostel building of SAI - LNCPE, Trivandrum	Dr. Madhu Karthik M.	Biju P. Daniel & Co.	566400	16 November 2020 - 14 December 2020

Consultancy Projects - Completed

Sl. No.	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration
24	Upgradation of coastal roads - Construction of Retaining wall and Upgradation of Road at Vettikkunnuvula Road in Paravoor Municipality in Chathannoor Legislative Assembly Constituency)	Dr. Rakesh J. Pillai	Harbour Engineering Department, Govt. of Kerala	300000	01 October 2020 - 31 December 2020
25	Soil Investigation for Laying 500 mm MS pipe across railway line at Ponnurrunni by Push-through method	Dr. Sudheesh T. K.	Kerala Water Authority	154580	18 December 2020 - 18 February 2021
26	Soil Investigation Report - AMRUT-2017-18-WSS to Guruvayur Municipality in Thrissur District - Distribution network for Thaikkad Zone - Railway line crossing at Paluvai by push through method	Dr. Sudheesh T. K.	Tony P. Thekkiniyath (Contractor KWA)	32,568	21 January 2021 - 21 February 2021
27	Technical review of the counter claims by IOCL and CoPT for arbitration of the case in connection with Construction of Multi- User liquid Terminal at Puthuvypen, Cochin port	Dr. Sunitha K. Nayar	Indian Oil Corporation Limited	632952	04 January 2021 - 28 February 2021
28	Preparation of Counter Argument Report for IOCL's Arbitration case in connection with Construction of Multi- User Liquid Terminal at Puthuvypen, Cochin Port	Dr. Senthilkumar V.	Indian Oil Corporation Limited	446040	09 January 2021 - 28 February 2021
29	Preparation of Cross Examination Arguments and Analysis against the detailed delay and escalation report of the Contractor against IOCL's Arbitration case in connection with MULT at Puthuvypen, Cochin Port	Dr. Senthilkumar V	Indian Oil Corporation Limited	446040	05 February 2021 - 28 February 2021
30	Four Laning of Thalassery - Mahe Bypass section of NH-17 from km 170+600 (Design Chainage 170+600) to km 188+000 (Design Chainage 189+200) in the State of Kerala under NHDP Phase-III on EPC Mode	Dr. Anil Kumar M. V.	EKK Infrastructure Ltd.	254880	08 March 2021 - 08 April 2021
31	To establish the process methods for manufacturing MS1 alloy through powder bed fusion technique and its characterization	Dr. D. Kesavan	EOS GmbH India	443208	06 April 2021 - 05 May 2021
32	Checking and Vetting of Design Solution for FRC Flooring of the proposed project at Chennai Submitted by ACS Technologies, Chennai.	Dr. Sunitha K. Nayar	K C Contech	177000	22 June 2021 - 01 July 2021
33	Checking and Vetting of Design Solution for Warehousing Project at Aarush Logistics Park at Vallam, Oragadam submitted by Aarush (Phase II) Logistics Park Pvt. Limited	Dr. Sunitha K. Nayar	M/s Aarush (Phase II) Logistics Park Pvt. Limited, Chennai	155760	30 June 2021 - 07 July 2021
34	Checking and Vetting of Design Solution for flooring of Power of one logistics park at Chakan, Talegaon submitted by Power of One Logistics Park Pvt. Limited	Dr. Sunitha K. Nayar	Power of One Logistics Park Pvt. Limited, Mumbai	155760	30 June 2021- 07 July 2021
35	Vetting of Cold In-place Recycling on NH 66	Dr. C. V. Veena Venudharan	PMR Construction Company	184080	08 October 2020 - 08 July 2021
36	Site visit and RE wall inspection report- Mukkola project	Dr. Divya P. V.	Larsen & Toubro Limited (L&T)	514008	01 July 2021 - 30 July 2021
37	Payment design for roads in Kottoor Elephant Rehabilitation Centre	Dr. C V Veena Venudharan	Kerala Infrastructure Investment Fund Board (KIIFB)	212400	01 July 2021 - 15 August 2021
38	Checking and vetting of design solutions for FRC flooring of the proposed project at T01 at Topline Logistics Park Pvt Ltd, Palwal Haryana, for Indusfloors.	Dr. Sunitha K. Nayar	Indus Floors India Pvt Ltd	177000	05 September 2021 - 15 September 2021
39	Consultancy for Remedial Measures for Distressed Culvert, Runway and Embankment of Calicut International Airport	Dr. Sudheesh T. K.	Airports Authority of India	3497520	25 March 2021 - 24 September 2021
40	Recommendations on slope protection works for Mattanur-Irikkur road, Kannur	Dr. Divya P. V.	Kerala Infrastructure Investment Fund Board (KIIFB)	900576	10 August 2021 - 10 October 2021
41	Site Visit report for visual assessment of dislodged panel of MSE wall at CH 28 +665	Dr. Divya P. V.	Larsen & Toubro Limited (L&T)	594720	27 February 2022 - 10 March 2022
42	Kochi Salem LPG Pipeline Project	Dr. Senthilkumar V	Kochi Salem Pipeline Pvt Ltd	177000	01 March 2022 - 30 April 2022
43	Recommendations on Ground Improvement Works for Perumbavoor Bypass Road	Dr. Divya P. V.	KIIFB	254880	23 March 2022 - 08 July 2022
44	Conduct hydrological modelling for Jharkhand State covering all major river basins using the Soil and Water Assessment Tool (SWAT) model for CRISP-M	Dr. Athira P.	International Institute for Environment & Development	1951144	01 December 2021 - 31 July 2022
45	Tensile testing of metallic parts	Dr. D Kesavan	Ultraviolette Automotive Pvt Ltd	78386	18 July 2022 - 17 August 2022

Consultancy Projects - Completed

Sl. No.	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration
46	Site Inspection of cracks developed in Gramakala building - IRTC Jubilee Complex - Mundur	Dr. Madhu Karthik M.	Integrated Rural Technology Centre (IRTC)	28320	13 August 2022 - 20 August 2022
47	Filter development for Radiographic Images	Dr. Mahesh R. Panicker	Visi Consult Pvt. Ltd., Maharashtra	54000	20 March 2022 - 20 September 2022
48	World Skills International Competition - Mentoring For Digital Construction Skillset	Dr. Senthilkumar V.	Construction Skill Development Council of India	1346270	01 February 2022 - 30 September 2022
49	Amrut -WSS to Guruvayur Municipality in Thrissur - District Distribution network for Thaikkad zone- Railway iine crossing at Paluvai by HDD method	Dr. Sudheesh T.K.	Kerala Water Authority	42480	September 20 2022 - October 20 2022
50	Rolling contact fatigue testing under - pure rolling and rolling with 30% slip conditions	Dr. D. Kesavan	GE India Industrial Private Limited	354000	25 August 2022 - 24 November 2022
51	Flexural toughness testing and certification of M30 concrete with Tufstrand SF (Macro Fibres) supplied by Tremco CPG (India) Private Limited (Formerly known as 'Flowcrete India Private Limited')	Dr. Sunitha K Nayar	TREMCO CPG India limited	518114	15 July 2022 - 12 December 2022
52	Experimental investigation for determining drying shrinkage potential using area specific concrete compositions for flooring applications	Dr. Sunitha K. Nayar	Floormart Global, Maharashtra	368160	25 March 2022 - 31 December 2022
53	Checking and Vetting of Design submitted by Bekaert - DRAMIX for SFRC Flooring of the Power of One logistics park project at Talegaon by Ascendas, Firstspace Development Management Pvt. Ltd.	Dr. Sunitha K Nayar	Firstspace Development Management Pvt. Ltd	127440	05 January 2023 - 15 January 2023
54	Checking and Vetting of Design submitted by Bekaert – DRAMIX for warehouse project at Palwal, Haryana by Ascendas, Firstspace Development Management Pvt. Ltd.	Dr. Sunitha K. Nayar	Firstspace Development Management Pvt. Ltd	127440	05 January 2023 - 15 January 2023
55	Checking and Vetting of Design submitted by Bekaert – DRAMIX for SFRC saw cut flooring to be laid for AARUSH LOGISTICS PVT LTD - Project VINPLEX INDIA PVT.LTD Proposed warehouse- V4,V5 by Civitech India Pvt. Ltd.	Dr. Sunitha K. Nayar	M/s. Civitech India Pvt. Ltd.	127440	05 January 2023 - 15 January 2023
56	Conduct hydrological modelling of Chhattisgarh covering all major river basins using the Soil and Water Assessment Tool (SWAT) model for CRISP-M	Dr. Athira P.	International Institute for Environment & Development	3348905	15 August 2022 - 31 January 2023
57	IOCL Mangalore Terminal Expansion	Dr. Sudheesh T. K.	Keller Ground Engineering India Private Limited	177000	06 January 2023 - 05 March 2023
58	Checking and Vetting of Design submitted by Bekaert - DRAMIX for SFRC Flooring of the Power of the Topline Logistics Park Pvt. Ltd. T2-T3: Warehouse Saw-Cut Floor, Firstspace Development Management Pvt. Ltd.	Dr. Sunitha K. Nayar	Topline Logistics Park Pvt. Ltd.	127440	28 February 2023 - 10 March 2023
59	Recommendations for bridge adutment on rock	Dr. Sudheesh T. K.	Southern Railway	368160	20 February 2023 - 20 March 2023
60	Indoor Detection of Person using Phased array radar & FMCW 60 GHz Radar for Detecting a Person and Monitoring Vital Sign	Dr. Swaroop Sahoo	Multicoreware Inc., CA	180000	01 October 2022 - 31 March 2023
61	Checking and Vetting of Design submitted by Durafloor Concrete of the RCC grade slab used for two location in the IOCL project, Chennai	Dr. Sunitha K. Nayar	Durafloor Concrete Solutions LLP	141600	10 April 2023 - 20 April 2023
62	Recommendations on the construction of a multi - storey building with pile foundations near a KWA pipeline at Re - survey No. 93 & 97 of Thycaud village, Tiruvanathapuram.	Dr. Rakesh J. Pillai	Kerala Water Authority	472000	10 April 2023 - 10 May 2023
63	Robust receive beamforming algorithm for underwater sonar imaging system for Mine Like Object Detection in the presence of reverberation	Dr. Mahesh R. Panicker	DRDO NPOL	989218	16 May 2022 - 15 May 2023
64	Fibre characterisation and flexural toughness testing of fibre reinforced concrete (FRC) with two types of fibres supplied by CHRYSO India Private Limited.	Dr. Sunitha K Nayar	Chryso Indian Pvt. Ltd	916634	01 December 2022 - 15 May 2023
65	Soil Tests and Desing calculation - Pipeline crossing under railway track near Nellayi Railway station	Dr. Sudheesh T K	Kerala Water Authority	200600	24 April 2023 - 23 May 2023
66	Robust operational space motion control of a waist assistive powered exoskeleton	Dr. Santhakumar Mohan	DRDO, CAIR	3176000	30 November 2021 - 31 May 2023

Consultancy Projects - Completed

Sl. No.	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration
67	Flexural toughness testing and certification of M30 concrete with Mark Chem steel fibres supplied by Markchem	Dr. Sunitha K. Nayar	Mr. Mark Overseas	361080	15 January 2023 - 15 June 2023
68	Compiler Optimizations and LLVM	Dr. Unnikrishnan C	Multicoreware Inc., CA	180000	16 January 2023 - 16 June 2023
69	Supply of additively manufactured inconel 718 plates, Mechanical Property Evaluation and Micro Structure Analysis	Dr. D Kesavan	ISRO Propulsion Complex (IPRC), Mahendragiri	1493968.75	29 October 2022 - 30 January 2024
70	Development of a River Basin Management Plan for the Bharathapuzha River Basin	Team Leader: Prof. Balaji Narasimhan (IITM & Adjunct Faculty, IITPKD) Dy. Team Leader: Prof. Sudheer K. P. (Executive Vice President, KSCSTE) Hydro-climatological Expert: Dr. Sarmsitha Singh Water Resource Engineer: Dr. Athira P. Hydrological Modelling Expert: Dr. Subhasis Mitra	Irrigation Design & Research Board (IDRB)	7300000	25 February 2022 - 24 February 2024
71	Automatic Target Detection using Side Scan Sonar (SSS) and Multibeam Echosounder (MBE) Images	Dr. Mahesh R. Panicker	DRDO CAIR	1965000	08 July 2022 - 07 March 2024
72	Development of a numerical model for predicting flow noise in thin towed sonar arrays	Dr. Ganesh Natarajan Dr. Anoop Akkoorath Mana Dr. Pramod Kuntikana	DRDO NPOL	973698	10 May 2022 - 09 March 2023
73	Appointment of Consultant for the review of Kochi Metro Pillar Nos. P 343 to P 351	Dr. Madhu Karthik M	Kochi Metro Rail Limited (KMRL)	1571760	28 December 2022 - 30 November 2023
74	Strength and Stability of Assesment of Sky Walkway at Seemati Junction	Dr. Gokulnath C	Kerala Road Safety Authority	212400	26 April 2023 - 25 July 2023
75	Vetting of the technical feasibility of KLD mobile septage unit proposed by Eram Scientific Solutions in the detailed project report (DPR) submitted to the Alappuzha Municipality	Dr. Praveena Gangadharan & Dr. Sunitha K Nayar	Eram Scientific Solutions/Alappuzha Municipality	118236	22 March 2023 - 15 April 2023
76	Fatigue life evaluation of bearing steels by rolling contact fatigue studies	Dr. D Kesavan	ISRO Inertial System Units	495600	17 January 2023 - 15 June 2023
77	Checking and Vetting of Design submitted by Bekaert concrete for SFRC flooring design for FM2 at the proposed Aarush (Phase V) Logistics Park Pvt Ltd at Chennai (Madras), Tamil Nadu, for Indus floors India Pvt Ltd	Dr. Sunitha K Nayar	Indus Floors India Pvt Ltd	127440	25 June 2023 - 05 July 2023
78	Recommendations on slope protection works for Painav- Thannikandom - Ashokakavala road, Idukki	Dr. Divya P. V.	EKK Infrastructure Ltd.	226560	22 February 2023 - 30 March 2023
79	Overlay Design and Rehabilitation Measures	Dr. C V Veena Venudharan	National Highway Authority of India, PIU (NHAI)	3267262	03 July 2023 - 03 October 2023
80	Vetting of CTB and CTSB mix designs: Six Laning of Kadampatti (Km 517+ 250) to Kazhakootam (Km 547+080) Section of NH66	Dr. C V Veena Venudharan	RDS Project LTD	360000	06 July 2023 - 06 September 2023
81	City Gas Distribution Project Thrissur and Palakkad	Dr. Rakesh J. Pillai	Indianoil Adani Gas Pvt Ltd	70000	01 July 2023 - 15 July 2023
82	Vetting of MASW & GPR test reports submitted by IIT Kharagpur conducted in Chengapalli to Walayar Section of NH544	Dr. Divya P. V. Dr. Ankesh Kumar	National Highway Authority of India, PIU (NHAI)	226560	25 June 2023 - 25 July 2023
83	Soil tests and design calculation - Jal Jeevan Mission (JJM) - 2021 - 22 - Koratty G Panchayath (Phase II) - Providing pipeline using HDD Method for crossing Railway Line at Koratty GP	Dr. Sudheesh T K	Kerala Water Authority	199656	18 May 2023 - 15 September 2023
84	Soil tests and design and calculation - water pipeline crossing at Kurumali Rappal road under passage, Puthukkad	Dr. Sudheesh T K	Kerala Water Authority	216648	07 May 2023 - 15 September 2023

Consultancy Projects - Completed

Sl. No.	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration
85	Design Calculation - pipeline crossing railway tracks at Paluvai by HDD method	Dr. Sudheesh T K	Kerala Water Authority	82600	31 July 2023 - 31 August 2023
86	Pipeline crossing under railway track at km -19/300 - 19/400 between Poonkunnam and Guruvayur railway stations, Brahmakulam	Dr. Sudheesh T K	Kerala Water Authority	141600	31 July 2023 - 31 August 2023
87	Slope stability assessment for a railway project at a site in Kerala	Dr. Divya P. V.	Engosym Consultants	996864	25 July 2023 - 25 September 2023
88	Proof checking and comparative assessment of grade slab using welded wire mesh	Dr. Sunitha K Nayar	Tata Steel Limited	293820	10 October 2023 - 10 November 2023
89	City Gas Distribution Project - Ernakulam GA	Dr. Rakesh J. Pillai	Indianoil Adani Gas Pvt Ltd	177000	01 October 2023 - 01 November 2023
90	Blasting study at New Bharath Quarry, Kanichar	Dr. Ankesh Kumar	M/s New Bharat Stone Crusher & Hollow Bricks Industries	127440	25 October 2023 - 28 November 2023
91	Checking and Vetting of Design submitted by Bekaert concrete for SFRC flooring design for Ascendas to be implemented by Lamba Techno Flooring Solutions team (LTFS) at Kolar Pune.	Dr. Sunitha K Nayar	M/s. Bekaert Mukand Wire Industries Pvt. Ltd.	127440	21 December 2023 - 30 December 2023
92	Flexural toughness testing and certification FRC samples supplied by Kasturi Metal Composites Private Limited.	Dr. Sunitha K Nayar	Kasturi Metal Composite Pvt Ltd	261960	01 February 2024 - 20 February 2024
93	Wetting of 200 KWp solar plant installation project at T-39 Hanger NAY Kochi	Dr. Arun Rahul S	P P John Constructions	35400	25 January 2024 - 12 February 2024
94	Soil tests - Jal Jeevan Mission - Water Supply Scheme to Udayamperoor Grama Panchayat in Ernakulam- Soil investigation consultancy	Dr. Sudheesh T K	Kerala Water Authority	179124	25 September 2023 to 01 April 2024
95	Soil tests and design calculations - AMRUT -II- Water Supply Improvements to Pachalam Zone - Providing distribution mains from Pachalam OHSR-Phase I	Dr. Sudheesh T K	Kerala Water Authority	197060	27 June 2023 to 01 May 2024
96	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	4956000	15 March 2024 - 30 September 2024
97	Construction of Lecture Hall Complex (Block - D) at NITK Campus, Suratkal, Mangalore	Dr. Arvind Ajoy	M/s. Sukhdevraj Sharma Engineers And Contractors Pvt. Ltd.	361080	02 April 2024 to 30 April 2024
98	Ground Improvement works using vibro stone column (bottom feed method) for 3x150MT above ground bullets at HPCL LPG Terminal.	Dr. Sudheesh T K	Keller Ground Engineering India Private Limited, Rajasthan	147500	05 April 2024 - 30 April 2024
99	Consultancy of Undertaking Serviceability Check and Technical Inspection of Shrouds and Ratlines at Quarter Deck of Parade Ground at Indian Naval Academy (INA) Ezhimala	Dr. Madhu Karthik M.	Garrison Engineer (Maint) Ezhimala	1699200	06 May 2024 - 30 June 2024
100	Training on Process inputs, result output & marking system on each module of digital construction Skills	Dr. Senthilkumar. V	Central tool room & training Center	113752	07 May 2024 - 13 May 2024
101	Checking and Vetting of Design submitted by Bekaert concrete of SFRC flooring design for Thompson press, Faridabad executed by Indus floors India Pvt Ltd.	Dr. Sunitha K. Nayar	Indus Floors India Pvt. Ltd.	202488	24 May 2024 - 30 June 2024
102	Training on Process inputs, result output & marking system on each module of digital construction Skills	Dr. Senthilkumar. V	Tamil Nadu Skill Development Corporation	73936	07 May 2024 - 13 May 2024
103	Laying & Construction of 8" & 4" NB U/G Steel Pipeline Network & Associated Works at IOAGPL Thrissur & Palakkad GA	Dr. Rakesh J. Pillai	Indianoil Adani Gas Pvt Ltd	82600	25 June 2024 - 15 July 2024
104	Vetting the Network Survey Vehicle report for Thrissur Expressway Limited	Dr. C V Veena Venudharan	Thrissur Expressway Limited	240000	22 July 2024 - 05 August 2024
105	Investigation on settled warehouse of CONCOR terminal at Vallarpadam, Cochin and remedial measures	Dr. Divya P. V.	Container corporation of India Ltd. (CONCOR)	1042063	28 May 2024 - 27 July 2024
106	Insights into chemical and thermal properties of carbon samples	Dr. Dinesh Jasadeesan	Suracsh Filters Pvt Ltd	111532	01 August 2024 - 30 October 2024
107	Checking and Vetting of Design submitted by Bekaert - DRAMIX for SFRC Flooring of the Topline Logistics Park Pvt.Ltd T06: Warehouse Saw-Cut floor at Palwal, Haryana, for Tricon Buildwell Pvt. Ltd.	Dr. Sunitha K. Nayar	Tricon Buildwell Pvt. Ltd.	127440	02 September 2024 - 06 September 2024

Consultancy Projects - Completed

Sl. No.	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration
108	Checking and Vetting of Design submitted by Bekaert for SFRC flooring design for Power of One Logistics Park	Dr. Sunitha K. Nayar	Bekaert Mukand Wire Industries Pvt. Ltd.	127440	03 September 2024 - 08 September 2024
109	Analysis of the surface composition of carbon samples	Dr. Dinesh Jasadeesan	M/s. Suracsh Filters Pvt. Ltd.	52278	15 August 2024 - 30 October 2024
110	Ground improvement works using vibro stone columns (top feed method) for 62MLD desalination plant at Mundra, Gujarat	Dr. Sudheesh T K	Keller Ground Engineering India Private Limited, Rajasthan	354000	10 September 2024 - 10 November 2024
111	Structural, Electrical and Mechanical audit of the ropeway car system	Dr. Anil Kumar M. V.	USHA BRECO Limited	440000	23 September 2024 - 22 October 2024
112	Analysis of Differential Settlement of VUP at CH. 489+700 - Six Laning of Start of Kollam Bypass to Kadambattukonam from Km.486+000 to Km.517+800 of NH-47 (New NH-66) in the State of Kerala on Hybrid Annuity Mode under Bharatmala Pariyojna	Dr. Sudheesh T K	National Highways Authority of India (NHAI)	590000	18 October 2024 - 30 January 2025
113	Consultancy in the area of Tribology, Inspection, Composites and Additive Manufacturing	Dr. D. Kesavan	GE Renewable Energy Technologies Private Limited	472000	01 October 2024 - 25 December 2024
114	Prototype Development of a Wireless Blood Pressure Monitoring System with Electromagnetic Signal - Phase 2	Dr. Sukomal Dey	NAADISENS MED TECH LLP	485452	12 November 2024 - 11 February 2025
115	GEVO T4 Ductile Iron Camshaft - RCF Testing (Phase 2 – Step-up testing and verification (Ref: Report LR24-00486- WBL)+ add-on value- Services)	Dr. D. Kesavan	Wabtec India Industrial Private Limited, Bangalore, Karnataka	849600	01 Oct 2024 - 31 March 2025
116	Configurable & Scalable Firmware development for sensor less vector control of PMSM motor ranging from 1HP to 10HP for solar pumping application	Dr. Arun Rahul S	CRI Pumps P Ltd., Coimbatore	600000	26 Dec 2024 - 24 Mar 2025
117	IT Office Building in Technopark Phase-I campus TVM	Dr. Gokulnath C	Wootz Structures Pvt. Ltd.	250000	24 January 2025 - 10 March 2025
118	3D Mix design trials at Bikaner	Dr. Nedunuri Sai Surya Sree Aparna	Ekasksha Robotic Abstracts Limited	150000	07 February 2025 - 14 February 2025
119	Checking and Vetting of Design submitted by Bekaert for SFRC flooring design for Dhishan Bulwark Pvt. Ltd., Thornahalli, Kolar	Dr. Sanjukta Chakraborty	M/s. Bekaert Mukand Wire Industries Pvt. Ltd	141600	20 February 2025 - 01 March 2025
120	Comprehensive evaluation of dredged material as backfill reinforced earth (RE) walls	Dr. Sudheesh T K	M/s. Shivalaya Construction Company Pvt. Ltd.	118000	20 October 2024 - 15 March 2025
121	Phase 2 – Step-up testing and verification (Ref: Report LR24-00486- WBL)+ add-on value- Services	Dr. Kesavan D	M/s. Wabtec India Industrial Private Limited	902700	05 January 2025 - 31 March 2025
122	Experimental and Numerical Evaluation of Gaseous Fuel Combustibility under BF raceway conditions	Dr. Krishna Sessa Giri	IIT Madras	708000	13 May 2021 - 12 May 2024
123	Crack Detection using Automated Magnetic Particle Inspection	Dr. Mrinal Kanti Das	Sansera Engineering Ltd.	2565497	05 July 2022 - 04 July 2024
124	Research Cluster for AI Acceleration	Dr. Satyajit Das	Multicoreware Inc., CA	5485920	01 April 2022 - 31 March 2025
125	Measurement and Modeling of Soil Organic Stocks	Dr. Deepak Jaiswal	Keystone Foundation	1915400	01 April 2023 - 31 March 2025
126	Imaging Software for Portable Ultrasound Scanner	Dr. Mahesh Raveendranatha Panicker	SAMSUNG R&D INSTITUTE INDIA-BANGALORE PRIVATE LIMITED	1217760	01 October 2023 - 30 June 2024
127	Design and Development of Wireless Power Transfer Unit for Blood Pressure Monitoring with Electromagnetic Signal - A Prototype	Dr. Sukomal Dey	NAADISENS MED TECH LLP	523920	08 January 2024 - 07 July 2024
128	Checking and Vetting of Design submitted by Bekaert concrete for SFRC flooring design for the warehouse projects A10, A1 and A14 at Aarush Logistics Park Pvt Ltd, Chennai, Tamil Nadu.	Dr. Sunitha K Nayar	Indus floors India Pvt. (Ltd.)	152928	30 January 2024 - 05 Febrary 2024
129	Soil tests - Jal Jeevan Mission - Water Supply Scheme to Udayamperoor Grama Panchayat in Ernakulam- Soil investigation consultancy	Dr. Sudheesh T K	Kerala Water Authority	179124	25 September 2023 - 01 April 2024
130	Soil tests and design calculations - AMRUT -II- Water Supply Improvements to Pachalam Zone - Providing distribution mains from Pachalam OHSR-Phase I	Dr. Sudheesh T K	Kerala Water Authority	197060	27 June 2023 - 01 May 2024

Consultancy Projects - Completed

Sl. No.	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration
131	Construction of Lecture Hall Complex (Block - D) at NITK Campus, Suratkal, Mangalore	Dr. Arvind Ajoy	M/s. Sukhdevraj Sharma Engineers And Contractors Pvt. Ltd.	361080	02 April 2024 - 30 April 2024
132	Fibre characterisation and testing of fibre reinforced concrete (FRC) with high tensile hooked ended and looped ended steel fibers supplied by Kasturi Metals Private Limited	Dr. Sunitha K. Nayar	M/s. Kasturi Metals Composite Ltd.,	693840	01 Oct, 2024 - 31 Mar, 2025
Total Budget				81,305,998	