

SPONSORED PROJECTS DURING FY 2025-26: COMPLETED

Sl. No.	Title of the project	Principal Investigator	Co Investigator(s), if any	Sponsoring Agency	Budget Sanctioned (INR)	Duration
1	Non-equilibrium quantum dynamics and decoherence	Dr. Uma Divakaran	Nil	DST INSPIRE Fellowship	₹1,505,208.00	2013 - 2019
2	Design of heterogeneous catalysts to improve the selectivity of high-temperature, gas- phase reactions	Dr. Dinesh Jagadeesan	Nil	SERB Ramanujan Fellowship	₹1,365,654.00	2013 - 2018
3	Graphene and other 2D materials base spintronics and topological insulators	Dr. Jayakumar Balakrishnan	Nil	DST INSPIRE Fellowship	₹1,031,488.00	2014 - 2019
4	Improving water availability in hilly rain shadow regions through conservation measures	Dr. Athira P.	Nil	DST INSPIRE Fellowship	₹1,248,598.00	2015 - 2021
5	On positive solutions for classes of nonlinear elliptic boundary value problems	Dr. Lakshmi Sankar K.	Nil	DST INSPIRE Fellowship	₹1,691,680.00	2016 - 2021
6	On the Role of Proton Transfer in Triggering Disulfide Bond Reductions in Biological Systems- A Computational Approach	Dr. Padmesh Anjukandi	Nil	SERB Start Up Research Grant	₹1,101,613.00	2016 - 2019
7	Spin transport in 2D material(graphene)/ perovskites(LSMO) heterostructures	Dr. Jayakumar Balakrishnan	Nil	DST-NanoMission	₹540,361.00	2016 - 2019
8	DST INSPIRE Fellowship (Transferred from Chennai Mathematical Institute)	Dr. Parangama Sarkar	Nil	DST INSPIRE	₹1,339,329.00	01 September 2016 - 31 August 2022
9	Mechanistic correlation between homeostatic pressure and metastatic competence in cancer cells	Dr. Bibhu Ranjan Sarangi	Nil	SERB ECRA	₹537,147.00	15 July 2017 - 14 January 2021

10	Performance evaluation of a cryogenic coolant through a modified tool holder in machining of Inconel 625 super alloy	Dr. Dupadu Chakradhar	Nil	SERB ECRA	₹1,483,160.00	06 November 2017 - 05 November 2020
11	Study of approximation theoretic properties of the space of compact operators on Banach spaces	Dr. Jayanarayanan C. R.	Nil	SERB MATRICS	₹660,000.00	10 July 2018 - 09 October 2021
12	Structural design of Crash Guard Fencing	Dr. Anil Kumar M. V.	Dr. Madhu Karthik M.	Vigilance and Forest Intelligence, Thiruvananthapuram	₹84,960.00	08 August 2018 - 08 October 2018
13	A novel class of functionally controlled macromolecules with tunable properties for material and biomedical applications	Dr. Mintu Porel	Nil	SERB- Ramanujan Fellowship	₹3,800,000.00	13 August 2018 - 12 August 2023
14	A Compressed Sensing based Framework for Physical Layer Security in Large Dimensional Wireless Communication Systems	Dr. Lakshmi Narasimhan Theagarajan	Nil	DST INSPIRE Fellowship	₹3,500,000.00	28 September 2018 - 27 September 2023
15	Discovery, single crystal synthesis and investigation of anisotropic physical properties of novel spin-orbit materials	Dr. Soham Manni	Nil	DST INSPIRE Fellowship	₹3,500,000.00	15 October 2018 - 14 October 2023
16	Identification of the Substrates of DHHC Palmitoyl Acyltransferases by Rational Design of Trifunctional Probe and Exploration of Protein S- Palmitoylation	Dr. Sushabhan Sadhukhan	Nil	SERB- ECR (Early Career Research)	₹3,373,682.00	15 December 2018 - 14 June 2021
17	Energy positive microbial osmotic- electro desalination cell for wastewater treatment and high- quality water recovery	Dr. Praveena Gangadharan	Nil	SERB- EMEQ (Empowerment and Equity Opportunities for Excellence in Science)	₹3,994,500.00	02 March 2019 - 01 March 2022

18	Reversible Diradical Mediated Self-Assembly Formation of Discrete Organic Cages for the Construction of Stimuli-Responsive Supramolecular Functional Materials	Dr. Shanmugaraju Sankarasekaran	Nil	SERB- EMEQ (Empowerment and Equity Opportunities for Excellence in Science)	₹3,763,000.00	16 March 2019 - 15 March 2022
19	Feedback control of stochastic hybrid systems with state- dependent noise	Dr. Shaikshavali Chitraganti	Nil	SERB MATRICS	₹660,000.00	22 March 2019 - 21 March 2022
20	Investigation of a portable, affordable and self-guided bedside ultrasound system for tissue and blood velocity imaging	Dr. Mahesh Raveendranatha Panicker	Nil	SERB- ECRA (Early Career Research Award)	₹4,901,830.00	30 March 2019 - 29 June 2022
21	Theoretical Modelling Of High Pressure Chemistry & Study of Unusual Molecular Systems	Dr. Priyakumari C P	Nil	DST INSPIRE Fellowship	₹1,897,252.00	01 April 2019 - 31 March 2024
22	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	Nil	SERB- ECRA (Early Career Research Award)	₹4,211,530.00	14 May 2019 - 13 October 2022
23	Integrating wastewater treatment to groundwater softening and defluoridation using microbial desalination cell	Dr. Praveena Gangadharan	Nil	SERB- ECRA (Early Career Research Award)	₹3,519,480.00	15 May 2019 - 14 November 2022
24	Behaviour and Design of CFS Channel compression members with partial LIP Stiffened Flanges	Dr. Anil Kumar M. V.	Nil	SERB- CRG (Core Research Grant)	₹3,426,691.00	15 May 2019 - 14 May 2022
25	Soot Modelling and measurements in a counterflow diffusion flame	Dr. Krishna Sessa Giri	Nil	SERB- ECRA (Early Career Research Award)	₹4,655,040.00	16 May 2019 - 15 May 2022

26	Bio-inspired Hybrid Underwater Vehicle for Ocean Observations	Dr. Santhakumar Mohan	Nil	SERB Core Research Grant (CRG)	₹2,838,284.00	17 July 2019 - 16 January 2023
27	Raaz: A cryptographic library with formal guarantees	Dr. Piyush P. Kurur	Nil	DST ICPS	₹2,268,000.00	26 July 2019 - 25 July 2022
28	Synthesis, characterization and evaluation of TiO ₂ - polymer nanocomposite for photocatalytic oxidation of ethylene	Dr. Dinesh Jagadeesan	Nil	Defence Food Research Laboratory (DFRL)	₹945,000.00	06 September 2019 - 05 September 2021
29	Development of Failure Limiting Diagram For Surface Modified Wheel-rail and Wind-turbine Bearing Materials Through Rolling Contact Fatigue Studies	Dr. D. Kesavan	Nil	SERB EMEQ	₹4,927,120.00	27 November 2019 - 26 November 2022
30	Ultra-precision machining of brittle materials - Material micro-structural perspective and cutting edge radius effect	Dr. Afzaal Ahmed	Nil	SERB SRG	₹3,165,190.00	03 December 2019 - 02 June 2022
31	Linkage of Large Scale Ocean-Atmospheric Phenomena on Hydroclimatic Extremes in India	Dr. Sarmistha Singh	Nil	SERB SRG	₹1,973,180.00	03 December 2019 - 02 December 2021
32	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)	1. Dr. Dhanya C. T. (Asso. Prof., IIT Delhi) 2. Prof. Geetam Tiwari (IIT Delhi)	National Mission on Himalayan Studies (NMHS)	₹1,353,836.00	10 December 2019 - 09 December 2022
33	Analytical and Experimental Investigation on Frequency Dependent Linear Control Algorithm for Performance Enhancement	Dr. Sanjukta Chakraborty	Nil	SERB SRG	₹2,156,240.00	18 December 2019 - 17 December 2021

	of Real Life Civil Structures under Random Excitation					
34	Drought preparedness in Kerala: A comprehensive assessment with respect to climate change	Dr. Subhasis Mitra	Dr. Athira P.	Kerala State Council for Science, Technology & Environment	₹1,288,000.00	18 December 2019 - 17 December 2021
35	Low voltage MEMS actuation using Negative Capacitance	Dr. Arvind Ajoy	Nil	SERB SRG	₹2,773,690.00	21 December 2019 - 20 June 2022
36	Design and Development of a Composite Heat Sink based Battery Thermal Management System for Indian Electric Vehicle Industry	Dr. Samarjeet Chanda	Nil	SERB SRG	₹3,070,370.00	26 December 2019 - 25 December 2021
37	Deep learning and Reinforcement learning: New algorithms with improved interpretability, scalability, reliability and efficiency	Dr. Chandra Shekar Lakshminarayanan	Nil	SERB SRG	₹1,566,200.00	30 December 2019 - 29 December 2021
38	Multi-functional optically-sensitive devices with high efficiencies using perovskites	Dr. Revathy Padmanabhan	Nil	SERB SRG	₹3,087,770.00	02 January 2020 - 01 January 2022
39	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	Prof. Vinod A. Prasad	DST CSRI	₹6,717,160.00	18 January 2020 - 17 January 2023
40	Bayesian Deep Models for Efficient Privacy - Aware Learning in the Era of Big Data and Personalization	Dr. Mrinal Kanti Das	Nil	SERB SRG	₹1,780,900.00	04 February 2020 - 03 February 2022
41	Isolated Transition Metal Atoms on Defect-Engineered Graphene: Synthesis and	Dr. Dinesh Jagadeesan	Nil	SERB CRG	₹3,767,070.00	05 February 2020 - 04 February 2023

	Catalytic Oxidation of Indoor Volatile Organic Compounds					
42	Sustainable and resilient environment friendly solutions for hill road design through a pilot study on Mannarkkad - Chinnathadagam Road	Prof. Tom V. Mathew	1. Dr. B. K. Bhavathrathan 2. Dr. Sudheesh T. K. 3. Dr. Rakesh J. Pillai 4. Dr. Veena Venudharan	Kerala PWD	₹2,498,760.00	12 February 2020 - 11 March 2021
43	Diffuse interface immersed boundary/finite volume framework for compressible viscous flows	Dr. Ganesh Natarajan	Nil	SERB MATRICS	₹660,000.00	21 February 2020 - 20 February 2023
44	Oriented Diameter of Graphs	Dr. Deepak Rajendraprasad	Nil	SERB MATRICS	₹660,000.00	21 February 2020 - 20 February 2023
45	Development of Membrane-confined Stem Grouted Piles and their Behaviour under Uplift Loading	Dr. Sudheesh T. K.	Nil	SERB CRG	₹3,041,700.00	07 March 2020 - 06 March 2023
46	ZIGBEE based wireless sensor network for landslide	Dr. Albert Sunny	Dr. Sudheesh T. K.	ISRO RESPOND Programme, Department of Space	₹1,552,000.00	21 March 2020 - 20 March 2022
47	Low-cost Medical Ventilator - Mechanical	Dr. Afzaal Ahmed	Nil	Covid 19 Project funded by Federal Bank	₹600,000.00	01 April 2020 - 01 August 2020
48	Low-cost Medical Ventilator - Electrical	Dr. Sreenath V.	Nil	Covid 19 Project funded by Federal Bank	₹600,000.00	01 April 2020 - 01 August 2020

49	Pulse Plethysmograph for ICUs	Prof. Vinod A. Prasad	Nil	Covid 19 Project funded by Federal Bank	₹600,000.00	01 April 2020 - 01 August 2020
50	Automated Lung Ultrasound for COVID-19 Screening and Monitoring	Dr. Mahesh R. Panicker	Nil	Covid 19 Project funded by Federal Bank	₹600,000.00	01 April 2020 - 01 August 2020
51	Low-cost Test Kit for Fast Screening of COVID-19 Patients	Dr. Shanmugaraju Sankarasekaran	Nil	Covid 19 Project funded by Federal Bank	₹500,000.00	01 April 2020 - 01 August 2020
52	Real-time Crowd Sensing using Mobile Phone tracking	Dr. Lakshmi Narasimhan Theagarajan	Nil	Covid 19 Project funded by Federal Bank	₹600,000.00	01 April 2020 - 01 August 2020
53	Study of the interaction between synthetic sequence-defined macromolecules and lipid-membrane towards developing antibacterial and anticancer drug	Dr. Mintu Porel	Dr. Sovan Lal Das	Scheme for Transformational and Advanced Research in Sciences (STARS) - Ministry of Human Resource Development	₹9,968,000.00	15 May 2020 - 14 May 2023
54	Performance of mechanically stabilised reinforced soil structures with locally available marginal lateritic backfills	Dr. Divya P. V.	Nil	Techfab India Industries Ltd., Mumbai	₹1,105,046.00	01 June 2020 - 01 January 2022
55	An automated lung ultrasound workflow for diagnostic assistance in COVID-19 and beyond	Dr. Mahesh R. Panicker	Nil	SERB CRG Covid 19 Project	₹608,960.00	05 August 2020 - 04 August 2021
56	Towards Automating Deterministic Bug-reproduction during Post-silicon Validation	Dr. Sandeep Chandran	Nil	Semiconductor Research Corporation	₹2,431,776.00	01 September 2020 - 31 August 2023

57	Design and Development of a new Sitting-Type Lower Limb Rehabilitation Robot	Dr. Santhakumar Mohan	Nil	Council of Scientific and Industrial Research (CSIR)	₹2,210,000.00	01 November 2020 - 31 October 2023
58	Robotics and Automation in Agriculture	Dr. Santhakumar Mohan & Prof. Laxmidhar Behera (from IIT Kanpur side)	Nil	Ministry of Electronics and Information Technology (MeitY)	₹5,184,000.00	01 November 2020 - 31 October 2023
59	An Algorithm for Automated Identification of Geometric Inconsistencies on Road Networks by Employing Cluster-Calibrated Speed Prediction Models	Dr. B. K. Bhavathrathan	Nil	SERB SRG	₹2,659,820.00	19 December 2020 - 18 December 2022
60	High- Speed Online Monitoring of Software Applications	Dr. Sandeep Chandran	Nil	SERB SRG	₹2,259,790.00	19 December 2020 - 18 December 2022
61	HARKAL: Hardware Accelerated Robust Kernel Adaptive Learning	Dr. Subrahmanyam Mula	Nil	SERB SRG	₹1,724,280.00	19 December 2020 - 18 December 2022
62	Design and Synthesis of a Novel Class of Sequence-defined Macrocycles with Modular Post-synthetic Modification for Material and Biomedical Applications.	Dr. Mintu Porel	Nil	SERB CRG	₹5,364,832.00	21 December 2020 - 20 December 2023
63	Mapping the folding/misfolding mechanism of SOD1 using single molecule fluorescence spectroscopy	Dr. Supratik Sen Mojumdar	Nil	SERB SRG	₹2,870,000.00	22 December 2020 - 21 December 2022
64	Modeling Latency In Cell-Free Massive MIMO To Enable URLLC In 5G Cellular Systems	Dr. Jobin Francis	Nil	SERB SRG	₹1,100,950.00	22 December 2020 - 21 December 2022

65	Characterizing quantum computers: Entanglement in noisy quantum error correcting codes	Dr. Amit Kumar Pal	Nil	SERB SRG	₹2,266,771.00	23 December 2020 - 22 December 2022
66	Energy-Efficient Multicore Programmable Accelerator for ULP massive edge computing	Dr. Satyajit Das	Nil	SERB SRG	₹1,624,980.00	25 December 2020 - 24 December 2022
67	Magneto transport studies in 2D materials	Dr. Jayakumar Balakrishnan	Nil	SERB CRG	₹4,528,383.00	28 December 2020 - 27 December 2023
68	An Accurate and Efficient Parallel R-C Digitizer for Moisture Sensing	Dr. Sreenath V.	Nil	SERB SRG	₹2,805,440.00	30 December 2020 - 29 December 2022
69	Design and Development of an intelligent underwater vehicle with a manipulator for offshore oil/gas and other marine applications.	Dr. Santhakumar Mohan	Dr. L. Behera (IIT Kanpur) & Shri. Shiju P John (Sc D NPOL - Lab Collaborator)	Naval Research Board	₹4,526,850.00	25 January 2021 - 24 January 2024
70	Estimation of the thermal contact conductance of realistic spacecraft bolted joints	Dr. Samarjeet Chanda	Dr. Sovan Lal Das	ISRO RESPOND Programme, Department of Space	₹3,044,000.00	19 February 2021 - 18 February 2023
71	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)	Nil	SERB NPDP	₹2,025,600.00	09 March 2021 - 08 March 2023
72	Reinforcement corrosion in bridge bent caps - fatigue response: An experiment and analytical study	Dr. Madhu Karthik M	Nil	SERB CRG	₹3,422,232.00	10 March 2021 - 09 March 2024
73	Framework and Compiler for Social Network Analysis	Dr. Unnikrishnan C.	Dr. Chandra Shekar	DST National Supercomputing Mission (NSM)	₹2,334,000.00	12 March 2021 - 11 March 2023

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74	Real-Time Air Quality and Weather Monitoring System for IIT Palakkad Campus	Dr. Praveena Gangadharan	Dr. S. M. Shiva Nagendra (IIT Madras), Dr. Sarmistha Singh, Dr. Swaroop Sahoo and Dr. Anju Elizabeth Peter (institute post-doctoral fellow)	IIT Palakkad	₹14,596,658.00	20 March 2021 - 20 March 2023
75	Mesoscale modeling of amorphous solids for large scale simulations	Dr. Pinaki Chaudhuri (Associate Professor, Physics, The Institute of Mathematical Sciences, Chennai)	Dr. Vishwas V., Dr. Smarajit Karmakar (Associate Professor, Physics, Tata Institute of Fundamental Research, Hyderabad) & Dr. Shiladitya Sengupta (Assistant Professor, Physics, Indian Institute of Technology Roorkee)	DST National Supercomputing Mission (NSM)	₹4,581,000.00	24 March 2021 - 23 March 2023

76	Robust Multi-view Learning for Extreme Events Detection and Prediction in Time Series Data	Dr. Sahely Bhadra	Nil	SERB CRG	₹3,617,337.00	25 March 2021 - 24 March 2024
77	Multiscale modelling of chromatin assembly and dynamics	Prof. Ranjith Padinhateeri, Biosciences and Bioengineering, Indian Institute of Technology Bombay	Prof. P. B. Sunil Kumar, Indian Institute of Technology Palakkad	DST National Supercomputing Mission (NSM)	₹2,426,520.00	06 April 2021 - 05 April 2023
78	Design and Fabrication of an LED-based solar simulator with integrated electrical and optical measurement capability	Dr. Arvind Ajoy	Dr. Revathy Padmanabhan & Dr. Arun Rahul S.	DST (SERD 2019 - Solar Energy Research & Development)	₹6,540,601.00	15 April 2021 - 14 April 2024
79	Pulse Oximeter Design and Development	Prof. Vinod A. Prasad	Nil	ITI Limited Palakkad	₹500,000.00	01 May 2021 - 01 June 2021
80	Regional Road Resilience using Landslide Susceptibility model	Dr. Rakesh J. Pillai	1. Dr. B. K. Bhavathrathan 2. Dr. Sudheesh T. K. 3. Mr. K. Nitheesh (PhD Scholar, IITPKD) 4. Mr. Abhijith A. (PhD Scholar, IITPKD)	Coalition for Disaster Resilience Infrastructure (CDRI)	₹748,508.00	10 May 2021 - 09 May 2022
81	NPTEL Course	Dr. Arvind Ajoy	Nil	IIT Madras	₹500,000.00	13 May 2021 - 12 May 2024

82	Mou with Kerala Highway Research Institute	Dr. Sudheesh T. K.	Nil	Kerala Highway Research Institute (KHRI)	₹6,000,000.00	13 July 2021 - 12 July 2024
83	Studies on the performance of coir geotextile reinforced embankments	Dr. Divya P. V.	Nil	Central Coir Research Institute	₹2,532,000.00	24 July 2021 - 23 July 2024
84	Study on Novocrete Stabilization Technology For Pavement Construction	Dr. Veena Venudharan	Nil	Nisco Builders and Developers Private Limited	₹849,600.00	01 August 2021 - 01 August 2023
85	Resilient reinforced soil structures for the sustainable stabilization of steep slopes and landslide mitigation measures	Dr. Divya P. V.	Nil	Kerala Infrastructure Investment Fund Board (KIIFB)	₹8,834,990.00	01 September 2021 - 01 September 2023
86	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	Nil	Council of Scientific and Industrial Research (CSIR)	₹1,100,000.00	02 September 2021 - 01 September 2024
87	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	Dr. Gokulnath C	DST (SERD 2019 - Solar Energy Research & Development)	₹4,521,200.00	14 September 2021 - 13 September 2024
88	Recycling C&D waste including non-concrete parts for geotechnical engineering applications	Dr. Divya P. V.	Nil	DST - WMT (Waste Management Techniligy Programme)	₹6,618,440.00	15 September 2021 - 14 September 2024
89	MoU with Bexel India Consulting LLP	Dr. Senthilkumar V.	Nil	Bexel India Consulting LLP	₹216,000.00	13 October 2021 - 12 October 2022

90	Ocean Acoustic Data Archival and Analytics Framework	Dr. Sahely Bhadra	Dr. Satyajit Das and Shri Baiju M Nair (Lab Collaborator)	Naval Research Board	₹2,899,657.00	27 October 2021 - 26 October 2022
91	Simulation Studies of electronic/photonic band gap materials for microwave applications	Dr. Sukomal Dey	Nil	ISRO RESPOND Programme, Department of Space	₹1,368,000.00	04 December 2021 - 03 December 2023
92	Design and fabrication of inorganic electrochromic devices using layer engineering	Dr. Revathy Padmanabhan	Nil	ISRO RESPOND Programme, Department of Space	₹2,470,000.00	07 December 2021 - 06 December 2023
93	Securing Deep Neural Networks against Adversarial Attacks in Medical Imaging	Dr. Vivek Chaturvedi	Nil	IHUB NTIHAC Foundation, IIT Kanpur	₹1,303,520.00	07 December 2021 - 06 December 2024
94	Finding the Progenitors of Carbon Enhanced Metal-Poor Stars	Dr. Projjwal Banerjee	Nil	SERB SRG	₹1,994,335.00	13 December 2021 - 12 December 2023
95	Study of Thermoregulation and Ventilation in Termite Mound Structures: Biomimetic Design Concepts for Passive Cooled Buildings	Dr. Pramod Kuntikana	Nil	SERB SRG	₹3,258,030.00	29 December 2021 - 28 December 2023
96	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	Nil	SERB SRG	₹2,905,950.00	30 December 2021 - 29 December 2023
97	Solid state welding of Ti alloy and Ni alloy metal prints for aerospace, energy and health sectors	Dr. Buchibabu Vicharapu	Nil	SERB SRG	₹3,259,870.00	31 December 2021 - 30 December 2023

98	Biomolecular characterization of a novel putative intracellular steroid hormone-binding receptor from <i>Wuchereria bancrofti</i> for the chemotherapeutic intervention of bancroftian filariasis	Dr. Suprabhat Mukherjee, Department Of Animal Science, Kazi Nazrul University	Prof. Jagadeesh Bayry	SERB CRG	₹108,300.00	24 January 2022 - 23 January 2025
99	Learn at Home	Dr. Dinesh Setti	Nil	Western India KINFRA Ltd - CSR	₹322,926.00	01 February 2022 - 31 March 2022
100	Creation of selected geo-spatial open data set for Pudukkottai Grama Panchayat using Community Participatory Mapping	Dr. Athira P.	Dr. Sahely Bhadra and Mr. Nikhil (UBA, Project Convener)	Western India KINFRA Ltd - CSR	₹242,927.00	01 February 2022 - 31 March 2022
101	Porous transition metal doped TiO ₂ catalysts for the thermal oxidation of volatile organic compounds	Dr. Dinesh Jagadeesan	Nil	Western India KINFRA Ltd - CSR	₹352,926.00	01 February 2022 - 31 March 2022
102	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	Nil	Western India KINFRA Ltd - CSR	₹322,926.00	01 February 2022 - 31 March 2022
103	Multiscale Modeling of Ferroelectrics for Negative Capacitance Applications	Dr. Arvind Ajoy	Nil	SERB MATRICS	₹660,000.00	18 February 2022 - 17 February 2025
104	Factorizing Matrices Under Structural Constraints	Dr. Lakshmi Narasimhan Theagarajan	Nil	SERB MATRICS	₹660,000.00	21 February 2022 - 20 February 2025
105	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,	Nil	IITG TIDF	₹2,454,400.00	21 February 2022 - 20 February 2024

		School of Electrical Sciences, IIT Bhubaneswar				
106	On exact results in generalized Sachedv-Ye-Kitaev models	Dr. Prithvi Narayan P	Nil	SERB MATRICS	₹660,000.00	23 February 2022 - 22 February 2025
107	Credit access and employment opportunities for women with disabilities	Dr. Amrita Roy	Dr. Sudatta Banerjee, Assistant Professor, Birla Institute of Technology and Science Pilani, Hyderabad	ICSSR	₹300,000.00	23 March 2022 - 22 March 2023
108	Production of biofertilizers from source separated urine	Dr. Shanmugaraju Sankarasekaran	Dr. Praveena Gangadharan & Dr. Sunitha K. Nayar	Department of Science & Technology - Science For Equity Empowerment and Development (SEED)	₹8,923,790.00	31 March 2022 - 29 March 2025
109	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	Dr. Praveena Gangadharan & Dr. Sunitha K. Nayar	Department of Science & Technology - Science For Equity Empowerment and Development (SEED)	₹6,812,046.00	31 March 2022 - 29 March 2025
110	DHR-GIA Proposal: Development of an Affordable Wearable IoT-GPS Enabled	Dr. Ram Bilas Pachori,	Dr. M. Sabarimalai Manikandan	Indian Council of Medical Research (ICMR)	₹4,178,604.00	20 June 2022 - 19 June 2024

	Intelligent Vital Signs Monitor for Smart Health Monitoring Services	Professor, IIT Indore				
111	Dispersion Controlled in Silico Catalyst Design for the Selective Hydroarylation Reaction	Dr. Rositha Kuniyil	Nil	SERB SRG	₹3,133,844.00	26 September 2022 - 25 September 2024
112	Study of Impact of Biodiversity in the pest control management of rice based agroecosystem	Dr. Merlin Lopez	Dr. Deepak Jaiswal (Mentor)	DST Women Scientist	₹2,962,272.00	30 September 2022 - 31 January 2025
113	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	Nil	Kerala Highway Research Institute (KHRI)	₹396,000.00	01 November 2022 - 30 April 2023
114	A Molecular Dynamics Perspective on the Mechanism of Dioxygen Activation	Dr. Shyama Ramakrishnan (Mentored by Dr. Padmesh A.)	Nil	KSCSTE Back-to-Lab Post Doctoral Fellowship	₹1,338,000.00	01 November 2022 - 31 October 2024
115	Design and Development of Planar Tuneable RF Filters for 5G Communication Systems	Dr. Mary Rani Abraham (Mentored by Dr. Sukomal Dey)	Nil	KSCSTE Back-to-Lab Post Doctoral Fellowship	₹1,338,000.00	01 November 2022 - 31 October 2024
116	Towards Building Quantity-Rich Knowledge Bases	Dr. Koninika Pal	Nil	SERB SRG	₹2,071,870.00	09 November 2022 - 08 November 2024
117	Sugar tailored NIR emitting fluorescent probes for biomedical applications	Dr. Shimi M. (mentored by Dr. Mintu Porel)	Nil	SERB National Post- Doctoral Fellowship	₹2,575,181.00	12 December 2022 - 11 December 2024
118	Study of skein algebras through quantization of Poisson algebras	Dr. Arpan Kabiraj	Nil	SERB SRG	₹1,278,662.00	09 January 2023 - 08 January 2025
119	Research Methodology for Construction Management	Dr. Senthilkumar V.	Nil	Global Initiative of Academic Networks (GIAN)	₹912,000.00	30 January 2023 - 10 February 2023

120	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)	₹150,000.00	23 February 2023 - 22 March 2023
121	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)	₹90,000.00	23 February 2023 - 22 March 2023
122	Design, Development and Validation of Smart Weather Station for Crop Yield Enhancement	Dr. Sreenath V.	Dr. Satyajit Das	KINFRA CSR (22-23)	₹270,000.00	23 February 2023 - 22 March 2023
123	Fabrication of Sustainable Products From Used Paper by 3-D Printing	Dr. S. Kanmani Subbu	Dr. Samarjeet Chanda	KINFRA CSR (22-23)	₹300,000.00	23 February 2023 - 22 March 2023
124	Optical Sensor Network for Detecting Elephant Movement	Dr. Arvind Ajoy		KINFRA CSR (22-23)	₹350,000.00	23 February 2023 - 22 March 2023
125	Low-cost multipurpose material for removal of toxic pollutants from environment towards developing a healthy life	Dr. Mintu Porel		KINFRA CSR (22-23)	₹140,000.00	28 February 2023 - 27 March 2023
126	Formal Analysis and Verification of Redundancy Management Logic for Inertial Navigation Processing Systems	Dr. Jasine Babu	Dr. Krithika Ramaswamy	ISRO RESPOND	₹1,884,520.00	23 March 2023 - 22 March 2025
127	Tribal languages in Palakkad: Moving Beyond Documentation to Support Reclamation	Dr. Reenu Punnoose	Nil	ICSSR	₹1,177,500.00	28 March 2023 - 27 March 2025
128	Design and Emulation of Electric Vehicle Permanent Magnet Machines	Dr. Arun Rahul S.		SERB International Research Experience (SIRE)	₹1,304,895.00	01 September 2023 - 31 December 2023

129	Effectiveness of a Proposed Dynamic Warning System: A Pilot Study on Drivers' Sensitivity Based on Surrogate Safety Analysis	Dr. B. K. Bhavathrathan	Nil	Kerala Highway Research Institute (KHRI)	₹2,477,000.00	23 November 2023 - 22 November 2024
130	Model Based Development of Domain ECU (DCU) and Validation through Hardware in Loop (HiL) Simulation for Commercial Vehicle Applications	Dr. Albert Sunny	Dr. Vijendran, Chair Professor, IPTIF Dr. B. Ashok – Associate Professor - VIT Dr. Om Kumar Krishnan, Professor, IIM Kozhikode	IPTIF - IMPACT	₹6,000,000.00	31 January 2024 - 30 January 2025
131	Flexible and Accelerate Runtime Monitors for In-field Verification of Software Applications	Dr. Sandeep Chandran	NA	IPTIF SEP	₹1,122,471.00	28 March 2024 - 30 September 2024
132	Optimal control of dynamical systems with learning methods	Dr. Shaikshavali Chitraganti	NA	IPTIF SEP	₹1,127,235.00	28 March 2024 - 30 September 2024
133	Intrinsic Explainability in Deep Learning Models	Dr. Sahely Bhadra	NA	IPTIF SEP	₹909,560.00	28 March 2024 - 30 September 2024
134	Development of interfacing circuits for single element and differential capacitive sensors	Dr. Sreenath Vijayakumar	NA	IPTIF SEP	₹843,628.00	28 March 2024 - 30 September 2024
135	Deep Bayesian Methods for Meta-Learning	Dr. Mrinal Kanti Das	NA	IPTIF SEP	₹872,000.00	28 March 2024 - 30 September 2024
136	Setting up a Battery Testing Facility	Dr. Vijay Muralidharan	NA	IPTIF TFD	₹8,303,400.00	28 March 2024 - 30 September 2024

137	Control of a structural system with sudden nonlinearity using the sliding mode technique	Dr. Sanjukta Chakraborty	NA	IPTIF SEP	₹361,680.00	02 April 2024 - 30 September 2024
138	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	Dr. Srinivas Boppu Indian Institute of Technology Bhubaneswar	Indian Council of Medical Research (ICMR)	₹1,644,792.00	24 June 2024 - 31 July 2024
139	Design and Development of Implantable Medical Device with Capsule Endoscopic MIMO Antennas utilizing RF Energy Harvesting for Biotelemetry Applications	Dr. Sukomal Dey	Mr. Vyasani Vadakkevedu	iHUB Divyasampark and IIT Roorkee	₹5,394,504.00	26 December 2024 - 24 March 2025

CONSULTANCY PROJECTS DURING FY 2025-26: COMPLETED

Sl. No.	Title of the project	Principal Investigator	Co Investigator(s), if any	Sponsoring Agency	Budget Sanctioned (INR)	Duration
1	Mix design for grade M15 Dry Lean Concrete mix	Dr. Madhu Karthik M.	Dr. Anil Kumar M. V.	Garrison Engineer (P) AF Sular, MES, Sular	₹46,550.00	30 October 2017 - 15 December 2017
2	Vetting of Structural Design of Bus Terminal (AMRUT Urban Transport) for Palakkad Municipality	Dr. Anil Kumar M. V.	Dr. Madhu Karthik M.	Palakkad Municipality	₹86,420.00	30 July 2018 - 28 September 2018
3	Soil Investigation for Permanent Campus of IIT Palakkad	Dr. Sudheesh T. K. & Dr. Divya P. V.	Nil	Central PWD	₹525,336.00	01 August 2018 - 01 September 2018

4	Review of lateral capacity of pile	Dr. Sudheesh T. K.	Nil	Furnace Fabrica India Ltd.	₹28,320.00	21 August 2018 - 07 September 2018
5	Brainwave- based Driver Drowsiness Detection System	Prof. Vinod A. Prasad	Nil	UVJ Technologies Pvt. Ltd.	₹1,200,000.00	01 January 2019 - 30 June 2020
6	Vetting of Design submitted by Durafloor Concrete Solutions for Fibre Reinforced Flooring	Dr. Sunitha K. Nayar	Nil	Durafloor Concrete Solutions LLP	₹155,760.00	14 January 2019 - 28 January 2019
7	Review of Soil Report	Dr. Sudheesh T. K.	Nil	Furnace Fabrica India Limited	₹25,488.00	28 January 2019 - 11 February 2019
8	Vetting of Structural Design (Improved Design of Eranholi Bridge)	Dr. Anil Kumar	Dr. Madhu Karthik M.	Ernad Engineering Enterprises	₹113,280.00	28 March 2019 - 28 May 2019
9	Vetting of Structural Drawings (Flyover at Edappal Junction)	Dr. Anil Kumar	Dr. Madhu Karthik M.	Ernad Engineering Enterprises	₹283,200.00	08 April 2019 - 08 June 2019
10	Proof Checking of 40m Girder and Deck Slab: Flyover at Vytilla	Dr. Anil Kumar M. V.	Dr. Madhu Karthik M.	PWD, Kerala Government	₹106,200.00	01 June 2019 - 01 July 2019
11	Vetting of Detailed Design of Viaduct from 1+786 to 2+013 along Thiruvalla Bypass	Dr. Anil Kumar M. V.	Dr. Madhu Karthik M.	E K K Infrastructure Limited	₹141,600.00	03 July 2019 - 03 September 2019
12	Checking and Vetting of Design Solution of Reinforced Flooring, done by Flatworx Consulting LLP	Dr. Sunitha K. Nayar	Nil	Flatworx Consulting LLP	₹155,760.00	03 September 2019 - 10 September 2019
13	BPCL Cross Country Pipeline: Study on Ground Improvement for the Development of Cochin Seaport- Airport Road Phase-II	Dr. Divya P. V.	Nil	BPCL	₹236,000.00	22 November 2019 - 20 December 2019
14	Structural stability check of flag mast for Naval Academy, Ezhimala	Dr. Anil Kumar M. V.	Dr. Madhu Karthik M & Dr. Sudheesh T. K.	Garrison Engineer (Maint) Ezhimala	₹283,200.00	04 January 2020 - 31 March 2020
15	RWSS to Pudukkad, Parappurkkara and Adjoining Panchayaths - Implementation of	Dr. Sudheesh T. K.	Dr. Rakesh J. Pillai	Kerala Water Authority	₹30,090.00	01 February 2020 - 01 March 2020

	pipe line near Railway bridge at Kurumali, Rapal by HDD Method					
16	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.	Dr. Rakesh J. Pillai	Kerala Water Authority	₹30,090.00	01 February 2020 - 01 March 2020
17	STP Water Testing	Dr.Praveena Gangadharan	Nil	Builtech Avenue Apartment Owner's Association	₹4,000.00	13 February 2020 - 04 March 2020
18	Consultancy for Design and Vetting of Fibre reinforced concrete (FRC) and Mesh reinforced concrete (RC) Flooring	Dr. Sunitha K. Nayar	Nil	IIT Madras	₹240,720.00	17 March 2020 - 17 April 2020
19	Soil investigation and structural stability for Sebastian indoor stadium, Edava, Thiruvananthapuram	Dr. Madhu Karthik M.	Dr. Anil Kumar M. V., Dr. Sudheesh T. K. & Dr. Rakesh J. Pillai	Kerala Infrastructure Investment Fund Board	₹708,000.00	01 April 2020 - 30 May 2020
20	Soil Investigation for existing soil at Runway Basic Strip - Calicut International Airport (Phase 1)	Dr. Sudheesh T. K.	Dr. Rakesh J. Pillai & Dr. C. V. Veena Venudharan	Airports Authority of India	₹455,126.00	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.	Dr. Rakesh J. Pillai & Dr. C. V. Veena Venudharan	Airports Authority of India	₹195,408.00	08 September 2020 - 07 October 2020

22	Upgradation of coastal roads - Construction of Retaining wall and Upgradation of Road at Vettikkunnuvila Road in Paravoor Municipality in Chathannoor Legislative Assembly Constituency)	Dr. Rakesh J. Pillai	Dr. Sudheesh T. K.	Harbour Engineering Department, Govt. of Kerala	₹350,000.00	01 October 2020 - 31 December 2020
23	Vetting of Cold In-place Recycling on NH 66	Dr. C. V. Veena Venudharan		PMR Construction Company	₹184,080.00	08 October 2020 - 08 July 2021
24	Design and development of a multi-purpose ground based mobile manipulator	Dr. Santhakumar Mohan	Mr. Divyansh Khare, S8, Mechanical Engineering, IIT Palakkad	Autodesk Inc.	₹88,500.00	01 November 2020 - 01 December 2020
25	Checking/ Vetting the Structural Design/ Drawings proof of the proposed 300 bedded hostel building of SAI - LNCPE, Trivandrum	Dr. Madhu Karthik M.	Dr. Anil Kumar M. V.	Biju P. Daniel & Co.	₹566,400.00	16 November 2020 - 14 December 2020
26	Soil Investigation for Laying 500 mm MS pipe across railway line at Ponnurunni by Push-through method	Dr. Sudheesh T. K.	Dr. Rakesh J. Pillai	Kerala Water Authority	₹154,580.00	18 December 2020 - 18 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	Dr. Divya P. V. & Dr. C. V. Veena Venudharan	Indian Oil Corporation Limited	₹632,952.00	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.	Nil	Indian Oil Corporation Limited	₹446,040.00	09 January 2021 - 28 February 2021
29	Soil Investigation Report - AMRUT-2017-18-WSS to Guruvayur Municipality in Thrissur District -	Dr. Sudheesh T. K.	Dr. Rakesh J. Pillai	Tony P. Thekkiniyath (Contractor KWA)	₹32,568.00	21 January 2021 - 21 February 2021

	Distribution network for Thaikkad Zone - Railway line crossing at Paluvai by push through method					
30	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	Nil	Indian Oil Corporation Limited	₹446,040.00	05 February 2021 - 28 February 2021
31	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.	Dr. Madhu Karthik M.	EKK Infrastructure Ltd.	₹254,880.00	08 March 2021 - 08 April 2021
32	Consultancy for Remedial Measures for Distressed Culvert, Runway and Embankment of Calicut International Airport	Dr. Sudheesh T. K.	Dr. Rakesh J. Pillai, Dr. C. V. Veena Venudharan, Dr. Anil Kumar M. V. & Dr. Madhu Karthik M.	Airports Authority of India	₹3,497,520.00	25 March 2021 - 24 September 2021
33	To establish the process methods for manufacturing MS1 alloy through powder bed fusion technique and its characterization	Dr. D. Kesavan	Nil	EOS GmbH India	₹443,208.00	06 April 2021 - 05 May 2021
34	Experimental and Numerical Evaluation of Gaseous Fuel Combustibility under BF raceway conditions	Dr. Krishna Sessa Giri	Nil	IIT Madras	₹708,000.00	13 May 2021 - 12 May 2024
35	Checking and Vetting of Design Solution for FRC Flooring of the proposed project at	Dr. Sunitha K. Nayar	Nil	K C Contech	₹177,000.00	22 June 2021 - 01 July 2021

	Chennai Submitted by ACS Technologies, Chennai.					
36	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	Nil	M/s Aarush (Phase II) Logistics Park Pvt. Limited, Chennai	₹155,760.00	30 June 2021 - 07 July 2021
37	Site visit and RE wall inspection report-Mukkola project	Dr. Divya P. V.	Nil	Larsen & Toubro Limited (L&T)	₹514,008.00	01 July 2021 - 30 July 2021
38	Payment design for roads in Kottoor Elephant Rehabilitation Centre	Dr. C V Veena Venudharan	Nil	Kerala Infrastructure Investment Fund Board (KIIFB)	₹212,400.00	01 July 2021 - 15 August 2021
39	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	Nil	Power of One Logistics Park Pvt. Limited, Mumbai	₹155,760.00	30 July 2021 - 07 July 2021
40	Recommendations on slope protection works for Mattanur-Irikkur road, Kannur	Dr. Divya P. V.	Nil	Kerala Infrastructure Investment Fund Board (KIIFB)	₹900,576.00	10 August 2021 - 10 October 2021
41	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	Nil	Indus Floors India Pvt Ltd	₹177,000.00	05 September 2021 - 15 September 2021
42	Robust operational space motion control of a waist assistive powered exoskeleton	Dr. Santhakumar Mohan	Dr. Sneha Gajbhiye & Dr. Jayant Kumar Mohanta, Assistant Professor, Dept.	DRDO CAIRS	₹3,176,000.00	30 November 2021 - 31 May 2023

			of Mechanical Engineering, IIT Jodhpur			
43	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.	Nil	International Institute for Environment & Development	₹1,951,114.00	01 December 2021 - 31 March 2022
44	World Skills International Competition - Mentoring For Digital Construction Skillset	Dr. Senthilkumar V.	Nil	Construction Skill Development Council of India	₹1,046,270.36	01 February 2022 - 30 September 2022
45	Development of a River Basin Management Plan for the Bharathapuzha River Basin	<p>Team Leader: Prof. Balaji Narasimhan (IITM & Adjunct Faculty, IITPKD)</p> <p>Dy. Team Leader: Prof. Sudheer K. P. (Executive Vice President, KSCSTE)</p> <p>Hydro-climatological Expert: Dr. Sarmsitha Singh</p> <p>Water Resource Engineer: Dr. Athira P.</p> <p>Hydrological Modelling: Dr. Subhasis Mitra</p>	Nil	Irrigation Design Reseach Board (IDRB)	₹7,300,000.00	25 February 2022 - 09 August 2024

46	Kochi Salem LPG Pipeline Project	Dr. Senthilkumar V	Nil	Kochi Salem Pipeline Pvt Ltd	₹177,000.00	01 March 2022 - 30 April 2022
47	Filter development for Radiographic Images	Dr. Mahesh R. Panicker	Nil	Visi Consult Pvt. Ltd., Maharashtra	₹54,000.00	20 March 2022 - 20 September 2022
48	Recommendations on Ground Improvement Works for Perumbavoor Bypass Road	Dr. Divya P. V.	Nil	KIIFB	₹254,880.00	23 March 2022 - 08 July 2022
49	Experimental investigation for determining drying shrinkage potential using area specific concrete compositions for flooring applications	Dr. Sunitha K. Nayar	Nil	Floormart Global, Maharashtra	₹368,160.00	25 March 2022 - 31 March 2022
50	Research Cluster for AI Acceleration	Dr. Satyajit Das	Nil	Multicoreware Inc., CA	₹5,485,920.00	01 April 2022 - 31 March 2025
51	Development of a numerical model for predicting flow noise in thin towed sonar arrays	Dr. Ganesh Natarajan Dr. Anoop Akkoorath Mana Dr. Pramod Kuntikana	Nil	DRDO NPOL	₹973,698.00	10 May 2022 - 09 March 2023
52	Robust receive beamforming algorithm for underwater sonar imaging system for Mine Like Object Detection in the presence of reverberation	Dr. Mahesh R. Panicker	Nil	DRDO NPOL	₹989,218.00	16 May 2022 - 15 May 2023
53	Automatic Target Detection using Side Scan Sonar (SSS) and Multibeam Echosounder (MBE) Images	Dr. Mahesh R. Panicker	Nil	DRDO CAIR	₹1,965,000.00	08 July 2022 - 07 March 2024
54	Flexural toughness testing and certification of M30 concrete with Tufstrand SF (Macro Fibres) supplied by Tremco CPG (India)	Dr. Sunitha K Nayar	Nil	TREMCO CPG India limited	₹518,114.00	15 July 2022 - 12 December 2022

	Private Limited (Formerly known as 'Flowcrete India Private Limited')					
55	Tensile testing of metallic parts	Dr. D Kesavan	Nil	Ultraviolette Automotive Pvt Ltd	₹78,386.00	18 July 2022 - 17 August 2022
56	Site Inspection of cracks developed in Gramakala building - IRTC jubilee complex - Mundur	Dr. Madhu Karthik M.	Dr. Anil Kumar M. V.	Integrated Rural Technology Centre (IRTC)	₹28,320.00	13 August 2022 - 20 August 2022
57	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.	Nil	International Institute for Environment & Development	₹3,551,037.00	15 August 2022 - 31 January 2023
58	Rolling contact fatigue testing under - pure rolling and rolling with 30% slip conditions	Dr. D. Kesavan	Nil	GE India Industrial Private Limited	₹354,000.00	25 August 2022 - 24 November 2022
59	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	Dr. Rakesh J Pillai	Kerala Water Authority	₹42,480.00	20 September 2022 - 20 October 2022
60	Indoor Detection of Person using Phased array radar & FMCW 60 GHz Radar for Detecting a Person and Monitoring Vital Sign	Dr. Swaroop Sahoo	Nil	Multicoreware Inc., CA	₹1,098,000.00	01 October 2022 - 31 August 2024
61	Supply of additively manufactured inconel 718 plates, Mechanical Property Evaluation and Micro Structure Analysis	Dr. D Kesavan	Nil	ISRO Propulsion Complex (IPRC), Mahendragiri	₹1,649,341.00	29 October 2022 - 30 January 2024
62	Fibre characterisation and flexural toughness testing of fibre reinforced concrete	Dr. Sunitha K Nayar	Dr. Veena Venudharan	Chryso Indian Pvt. Ltd	₹916,634.00	01 December 2022 - 15 May 2023

63	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)	₹1,871,480.00	28 December 2022 - 30 November 2023
64	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	Nil	Firstspace Development Management Pvt. Ltd	₹127,440.00	05 January 2023 - 15 January 2023
65	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	Nil	Civitech India Pvt. Ltd.	₹127,440.00	05 January 2023 - 15 January 2023
66	IOCL Mangalore Terminal Expansion	Dr. Sudheesh T. K.	Dr. Rakesh J. Pillai	Keller Ground Engineering India Private Limited	₹177,000.00	06 January 2023 - 05 March 2023
67	Flexural toughness testing and certification of M30 concrete with Mark Chem steel fibres supplied by Markchem	Dr. Sunitha K Nayar	Nil	Mr. Mark Overseas	₹361,080.00	15 January 2023 - 15 June 2023
68	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	Nil	Firstspace Development Management Pvt. Ltd	₹127,440.00	15 January 2023 - 15 June 2023
69	Compiler Optimizations and LLVM	Dr. Unnikrishnan C	Nil	Multicoreware Inc., CA	₹180,000.00	16 January 2023 - 16 June 2023
70	Fatigue life evaluation of bearing steels by rolling contact fatigue studies	Dr. D Kesavan	Nil	ISRO Inertial System Units	₹495,600.00	17 January 2023 - 15 June 2023
71	Recommendations for bridge adutment on rock	Dr. Sudheesh T. K.	Dr. Madhu Karthik M., Dr.	Southern Railway	₹368,160.00	20 February 2023 - 20 March 2023

			Rakesh J. Pillai & Dr. Ankesh Kumar			
72	Recommendations on site investigation and review of soil investigation report	Dr. Divya P. V.	Nil	EKK Infrastructure Ltd.	₹226,560.00	22 February 2023 - 30 March 2023
73	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	Nil	Topline Logistics Park Pvt. Ltd.	₹127,440.00	28 February 2023 - 10 March 2023
74	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	Nil	Eram Scientific Solutions/Alappuzha Municipality	₹118,236.00	22 March 2023 - 15 April 2023
75	Measurement and Modeling of Soil Organic Stocks	Dr. Deepak Jaiswal	Dr. Praveena Gangadharan	Keystone Foundation	₹1,915,400.00	01 April 2023 - 31 March 2025
76	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	Nil	Durafloor Concrete Solutions LLP	₹141,600.00	10 April 2023 - 20 April 2023
77	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	Dr. Sudheesh T K	Kerala Water Authority	₹472,000.00	10 April 2023 - 10 May 2023
78	Soil Tests and Design calculation - Pipeline crossing under railway track near Nellore Railway station	Dr. Sudheesh T K	Dr. Rakesh J. Pillai	Kerala Water Authority	₹200,600.00	24 April 2023 - 23 May 2023

79	Strength and Stability of Assesment of Sky Walkway at Seemati Junction	Dr. Gokulnath C	Dr. Anilkumar M	Kerala Road Safety Authority	₹212,400.00	26 April 2023 - 25 July 2023
80	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	Dr. Rakesh J. Pillai	Kerala Water Authority	₹199,656.00	18 May 2023 - 15 September 2023
81	Soil tests and design and calculation - water pipeline crossing at Kurumali Rappal road under passage, Puthukkad	Dr. Sudheesh T K	Dr. Rakesh J. Pillai	Kerala Water Authority	₹216,648.00	18 May 2023 - 15 September 2023
82	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	Nil	Indus Floors India Pvt Ltd	₹127,440.00	25 June 2023 - 05 July 2023
83	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	Nil	National Highway Authority of India, (NHAI)	₹226,560.00	25 June 2023 - 25 July 2023
84	Soil tests and design calculations - AMRUT -II- Water Supply Improvements to Pachalam Zone - Providing distribution mains from Pachalam OHSR-Phase 1	Dr. Sudheesh T K	Dr. Rakesh J. Pillai	Kerala Water Authority	₹197,060.00	27 June 2023 - 01 May 2024
85	City Gas Distribution Project Thrissur and Palakkad	Dr. Rakesh J. Pillai	Dr. Sudheesh T K	Indianoil Adani Gas Pvt Ltd	₹82,600.00	01 July 2023 - 15 July 2023
86	Overlay Design and Rehabilitation Measures	Dr. C V Veena Venudharan	Nil	National Highway Authority of India, PIU (NHAI)	₹3,267,262.00	03 July 2023 - 03 October 2023
87	Slope stability assessment for a railway project at a site in Kerala	Dr. Divya P. V.	Nil	Engosym Consultants	₹996,864.00	25 July 2023 - 25 September 2023

88	Design Calculation - pipeline crossing railway tracks at Paluvai by HDD method	Dr. Sudheesh T K	Dr. Rakesh J. Pillai	Kerala Water Authority	₹82,600.00	31 July 2023 - 31 August 2023
89	Pipeline crossing under railway track at km -19/300 - 19/400 between Poonkunnam and Guruvayur railway stations, Brahmakulam	Dr. Sudheesh T K	Dr. Rakesh J. Pillai	Kerala Water Authority	₹141,600.00	31 July 2023 - 31 August 2023
90	Soil tests - Jal Jeevan Mission - Water Supply Scheme to Udayamperoor Grama Panchayat in Ernakulam- Soil investigation consultancy	Dr. Sudheesh T K	Dr. Rakesh J. Pillai	Kerala Water Authority	₹179,124.00	25 September 2023 - 01 April 2024
91	Imaging Software for Portable Ultrasound Scanner	Dr. Mahesh Raveendranatha Panicker	Dr. Sukomal Dey (Admin PI)	SAMSUNG R&D INSTITUTE INDIA-BANGAL ORE PRIVATE LIMITED	₹1,217,760.00	01 October 2023 - 30 June 2024
92	City Gas Distribution Project - Ernakulam GA	Dr. Rakesh J. Pillai	Dr. Sudheesh T K	Indianoil Adani Gas Pvt Ltd	₹177,000.00	01 October 2023 - 01 November 2023
93	Proof checking and comparative assessment of grade slab using welded wire mesh	Dr. Sunitha K Nayar	Nil	Tata Steel Limited	₹293,820.00	10 October 2023 - 10 November 2023
94	Blasting study at New Bharath Quarry, Kanichar	Dr. Ankesh Kumar	Nil	M/s New Bharat Stone Crusher & Hollow Bricks Industries	₹127,440.00	25 October 2023 - 28 November 2023
95	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	Nil	M/s. Bekaert Mukand Wire Industries Pvt. Ltd.	₹127,440.00	21 December 2023 - 30 December 2023
96	Design and Development of Wireless Power Transfer Unit for Blood Pressure	Dr. Sukomal Dey	Nil	NAADISENS MED TECH LLP	₹523,920.00	08 January 2024 - 07 July 2024

	Monitoring with Electromagnetic Signal - A Prototype					
97	Wetting of 200 KWp solar plant installation project at T-39 Hanger NAY Kochi	Dr. Arun Rahul S	Nil	P P John Constructions	₹35,400.00	25 January 2024 - 12 February 2024
98	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	Nil	Indus floors India Pvt. (Ltd.)	₹152,928.00	30 January 2024 - 05 February 2024
99	Flexural toughness testing and certification FRC samples supplied by Kasturi Metal Composites Private Limited.	Dr. Sunitha K Nayar	Nil	Kasturi Metal Composite Pvt Ltd	₹516,840.00	01 February 2024 - 20 February 2024
100	Conceptualize, design, plan and execute the construction of engineering field testing platform for performance assessment of sanitation technologies	Dr. Praveena Gangadharan (Project Director, GSCOE)	NA	TECHIN- EFT	₹4,956,000.00	15 March 2024 - 30 September 2024
101	Construction of Lecture Hall Complex (Block - D) at NITK Campus, Suratkal, Mangalore	Dr. Arvind Ajoy	Shri. M Ravindran	M/s. Sukhdevraj Sharma Engineers And Contractors Pvt. Ltd.	₹361,080.00	02 April 2024 - 30 April 2024
102	Ground Improvement works using vibro stone column (bottom feed method) for 3x150MT above ground bullets at HPCL LPG Terminal.	Dr. Sudheesh T K	Dr. Rakesh J. Pillai	Keller Ground Engineering India Private Limited, Rajasthan	₹147,500.00	05 April 2024 - 30 April 2024
103	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.	Nil	Garrison Engineer (Maint) Ezhimala	₹1,699,200.00	06 May 2024 - 30 June 2024

104	Training on Process inputs, result output & marking system on each module of digital construction Skills	Dr. Senthilkumar. V	Nil	Central tool room & training Center, Bhubaneswar	₹113,752.00	07 May 2024 - 13 May 2024
105	Training on Process inputs, result output & marking system on each module of digital construction Skills	Dr. Senthilkumar. V	Nil	Tamil Nadu Skill Development Corporation	₹76,936.00	07 May 2024 - 13 May 2024
106	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	Nil	Indus Floors India Pvt. Ltd.	₹152,928.00	24 May 2024 - 30 May 2024
107	Investigation on settled warehouse of CONCOR terminal at Vallarpadam, Cochin and remedial measures	Dr. Divya P. V.	Nil	Container corporation of India Ltd. (CONCOR)	₹1,042,063.00	28 May 2024 - 27 July 2024
108	Laying & Construction of 8" & 4" NB U/G Steel Pipeline Network & Associated Works at IOAGPL Thrissur & Palakkad GA	Dr. Rakesh J. Pillai	Dr. Sudheesh T K	Indianoil Adani Gas Pvt Ltd	₹82,600.00	25 June 2024 - 15 July 2024
109	Vetting the Network Survey Vehicle report for Thrissur Expressway Limited	Dr. C V Veena Venudharan	Nil	Thrissur Expressway Limited	₹240,000.00	22 July 2024 - 05 August 2024
110	Insights into chemical and thermal properties of carbon samples	Dr. Dinesh Jasadeesan	Dr. K. Rajendran Mr. Mejo - CIF Mr. MG Harikrishnan - CIF	Suracsh Filters Pvt Ltd	₹111,532.00	01 August 2024 - 30 October 2024
111	Analysis of the surface composition of carbon samples	Dr. Dinesh Jagadeesan	Dr. K. Rajendran	M/s. Suracsh Filters Pvt. Ltd.	₹52,278.00	15 August 2024 - 30 October 2024
112	Checking and Vetting of Design submitted by Bekaert - DRAMIX for SFRC Flooring	Dr. Sunitha K. Nayar	Civil Engineering	Tricon Buildwell Pvt. Ltd.	₹127,440.00	02 September 2024 - 06 September 2024

	of the Topline Logistics Park Pvt.Ltd T06: Warehouse Saw-Cut floor at Palwal, Haryana, for Tricon Buildwell Pvt. Ltd.					
113	Checking and Vetting of Design submitted by Bekaert for SFRC flooring design for Power of One Logistics Park	Dr. Sunitha K. Nayar	Civil Engineering	Bekaert Mukand Wire Industries Pvt. Ltd.	₹127,440.00	03 September 2024 - 08 September 2024
114	Ground improvement works using vibro stone columns (top feed method) for 62MLD desalination plant at Mundra, Gujarat	Dr. Sudheesh T K	Dr. Rakesh J. Pillai	Keller Ground Engineering India Private Limited, Rajasthan	₹354,000.00	10 September 2024 - 10 November 2024
115	Structural, Electrical and Mechanical audit of the ropeway car system	Dr. Anil Kumar M. V.	Dr. Gokulnath C., Dr. Kesavan & Dr. Arun Rahul S.	USHA BRECO Limited	₹440,000.00	23 September 2024 - 22 October 2024
116	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	Dr. Athira Gopinath	M/s. Kasturi Metal Composite Ltd.,	₹693,840.00	01 October 2024 - 31 March 2025
117	Consultancy in the area of Tribology, Inspection, Composites and Additive Manufacturing	Dr. D. Kesavan	Prof. Mayank Tiwari & Dr. Nelson Muthu	GE Renewable Energy Technologies Private Limited	₹472,000.00	01 October 2024 - 25 December 2024
118	GEVO T4 Ductile Iron Camshaft - RCF Testing	Dr. D. Kesavan	Nil	Wabtec India Industrial Private Limited, Bangalore, Karnataka	₹849,600.00	01 October 2024 - 31 March 2025
119	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	Dr. Sudheesh T K	Dr. Rakesh J. Pillai	National Highways Authority of India (NHAI)	₹590,000.00	18 October 2024 - 30 January 2025

	(New NH-66) in the State of Kerala on Hybrid Annuity Mode under Bharatmala Pariyojna					
120	Comprehensive evaluation of dredged material as backfill reinforced earth (RE) walls	Dr. Sudheesh T K	Dr. Rakesh J. Pillai	M/s. Shivalaya Construction Company Pvt. Ltd.	₹118,000.00	20 October 2024 - 15 March 2025
121	Prototype Development of a Wireless Blood Pressure Monitoring System with Electromagnetic Signal - Phase 2	Dr. Sukomal Dey	Nil	NAADISENS MED TECH LLP	₹485,452.00	12 November 2024 - 11 February 2025
122	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	Nil	CRI Pumps P Ltd., Coimbatore	₹600,000.00	26 December 2024 - 24 March 2025
123	Phase 2 – Step-up testing and verification (Ref: Report LR24-00486- WBL)+ add-on value- Services	Dr. Kesavan D	Nil	M/s. Wabtec India Industrial Private Limited	₹902,700.00	05 January 2025 - 31 March 2025
124	IT Office Building in Technopark Phase-1 campus TVM	Dr. Gokulnath C	Dr.Anil Kumar M.V.	Wootz Structures Pvt. Ltd.	₹250,000.00	24 January 2025 - 10 March 2025
125	3D Mix design trials at Bikaner	Dr. Nedunuri Sai Surya Sree Aparna	Nil	Ekasksha Robotic Abstracts Limited	₹150,000.00	07 February 2025 - 14 February 2025
126	Checking and Vetting of Design submitted by Bekaert for SFRC flooring design for Dhishan Bulwark Pvt. Ltd., Thornahalli, Kolar	Dr. Sanjukta Chakraborty	Dr Sunitha K Nayar	M/s. Bekaert Mukand Wire Industries Pvt. Ltd	₹141,600.00	20 February 2025 - 01 March 2025