	Consultancy Projects - Underway					
Sl. No.	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration	
1	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	
2	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	
3	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	
4	Robust operational space motion control of a waist assistive powered exoskeleton	Dr. Santhakumar Mohan	DRDO, CAIR	3176000	30 November 2021 - 31 May 2023	
5	Flexural toughness testing and certification of M30 concrete with Mark Chen steel fibres supplied by Markchem	n Dr. Sunitha K. Nayar	Mr. Mark Overseas	361080	15 January 2023 - 15 June 2023	
6	Compiler Optimizations and LLVM	Dr. Unnikrishnan C	Multicoreware Inc., CA	180000	16 January 2023 - 16 June 2023	
7	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	
8	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		7300000	25 February 2022 - 24 February 2024	
9	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	
10	Experimental and Numerical Evaluation of Gaseous Fuel Combustibility under BF raceway conditions	Dr. Krishna Sesha Giri	IIT Madras	708000	13 May 2021 - 12 May 2024	
11	Crack Detection using Automated Magnetic Particle Inspection	Dr. Mrinal Kanti Das	Sansera Engineering Ltd.	2565497	05 July 2022 - 04 July 2024	
12	Research Cluster for AI Acceleration	Dr. Satyajit Das	Multicoreware Inc., CA	5485920	01 April 2022 - 31 March 2025	
13	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	July 2022 - July 2023	

D	Title of the project	Principal Investigator	Sponsoring Agency	Total Budget (INR)	Duration
	Mix design for grade M15 Dry Lean Concrete mix	Dr. Madhu Karthik M.	Garrison Engineer (P) AF Sulur, MES, Sulur	46,550	30 October 2017 - 15 December 2017
	Soil Investigation for Permanent Campus of IIT Palakkad	Dr. Sudheesh T. K. & Dr. DIvya P. V.	Central PWD	525336	August 2018 - September 2018
	Review of lateral capacity of pile	Dr. Sudheesh T. K.	Furnace Fabrica India Ltd.	28,320	21 August 2018 - 07 September 2018
	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
	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
	Review of Soil Report	Dr. Sudheesh T. K.	Furnace Fabrica India Limited	25,488	28 January 2019 - 11 February 2019
	Vetting of Structural Design (Improved Design of Eranholi Bridge)	Dr. Anil Kumar	Ernad Engineering Enterprises	113280	28 March 2019 - 28 May 2019
	Vetting of Structural Drawings (Flyover at Edappal Junction)	Dr. Anil Kumar	Ernad Engineering Enterprises	283200	08 April 2019 - 08 June 2019
	Proof Checking of 40m Girder and Deck Slab: Flyover at Vytilla	Dr. Anil Kumar M. V.	PWD, Kerala Government	106200	June 2019 - July 2019
)	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
	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 201
2	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
3	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
1	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
5	STP Water Testing	Dr.Praveena Gangadharan	Builtech Avenue Apartment Owner's Association	4,000	13 February 2020 - 04 March 2020
5	Structural stability check of flag mast for Naval Academy, Ezhimala	Dr. Anil Kumar M. V.	Garrisson Engineer (Maint) Ezhimala	283200	04 January 2020 - 31 March 2020
7	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
}	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
	Brainwave- based Driver Drowsiness Detection System	Prof. Vinod A. Prasad	UVJ Technologies Pvt. Ltd.	1200000	01 January 2019 - 30 June 2020
	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
	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
2	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
24	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	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 Ponnurunni 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
	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
	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
11	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
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	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
4	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
7	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
50	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
51	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
52	Recommentations 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
53	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	November 2022 - April 2023