ONGOING PROJECTS						
Sl No	**Name of the project**	**Sponsoring Agency**	**Name of the PI**	**Department**	**Sanctioned Amount**	**Year of Sanction**
1	Enhancement of the Stability of Engineered Slope by Vegetation: A Sustainable Approach	Ministry of Education	Dr. Subhadeep Metya	Civil Engineering	3597000.00	2022
2	Literature review, market and industry survey, and performance assessment of different types of tower bolts used in doors and windows (a builder's hardware) manufactured and/or available in the Indian market	BIS	Dr. Subhadeep Metya	Civil Engineering	343530.00	2024
3	Literature review, market and industry survey, and performance assessment of different types of door closers (a builder's hardware) manufactured and/or available in the Indian market	BIS	Dr. Subhadeep Metya	Civil Engineering	309760.00	2024
4	Low cost flood proof house applicable to rural flood prone areas	SERB	Dr. Seeram Madhuri	Civil Engineering	3006960.00	2023
5	Development of Cement-Based Sustainable Brick Block	Elegant Infra Developers	Dr. Keshav Kumar Sharma	Civil Engineering	1078000.00	2024
6	Bamboo-Based Hybrid Housing for Rural Residency for Particularly Vulnerable Tribal Groups (Birhor Community)	NTPC	Dr. Keshav Kumar Sharma	Civil Engineering	1045000.00	2025
7	Study on Reclamation of landfills and dump of Municipal Solid Waste Site	Public Health Services (TSUISL)	Dr. Awdhesh Kumar Choudhary	Civil Engineering	695000.00	2025
8	Possible Application of Industrial Waste as Filling Material for Sustainable Geosynthetic Reinforced Structures	JCSTI	Dr. Awdhesh Kumar Choudhary	Civil Engineering	475000.00	2025
9	Inspection of VUP/PUP/CUP for assessment of structural as well as functional condition	MoRTH, NHAI	Prof. Akhileshwar Kumar Singh	Civil Engineering	1000000.00	2024
10	Characterisation and Evaluation of Sustainable Concrete blended with Steel Slag	CARS Project	Dr. Virendra Kumar	Civil Engineering	600000.00	2026
11	Investment of Asphalt Binder Characteristics Through Multipal Ageing-Rejuvenation under Accelerated Ageing Coonditons Simulating Jharkhand's Climatic Environment	ANRF	Dr. Ambika Kuity	Civil Engineering	7014192.00	2026
12	Development of Novel WC-Cr3C2-Ni functionally graded composite coatings on Nickel-based C-263 super alloy for Nuclear	SERB-DST	Dr. Abhijit Dey	Mechanical Engineering	1350000.00	2025
13	Preparation of Test Method for Vertical Fatigue Testing of Suspension Fork for Bicycles	BIS	Dr. K SRI KRISHNA SUDHAMSU	Mechanical Engineering	362230.00	2024
14	National Technical Textiles Mission (NTTM)	Ministry of Textiles	Dr. Deepak Kumar	Mechanical Engineering	16600000.00	2023
15	Development of zero backlash power transmission mechanism for anthropomorphic robots	SERB	Dr. Vineet Sahoo	Mechanical Engineering	1215000.00	2023

16	Air entrainment and infrared suppression by hybrid and convex types of IRS devices with louvered openings: Experimental and numerical studies	SERB	Dr. Ashok Kumar Barik	Mechanical Engineering	3712192.00	2024
17	Thermal shock analysis of porous functionally graded pre twisted rotating blade	SERB	Dr. Shashank Pandey	Mechanical Engineering	1900000.00	2023
18	Design and Development of Remotely Operated Underwater Vehicle	TiHAN IIT Guwahati	Dr. Vijay Kumar Dalla	Mechanical Engineering	1000000.00	2024
19	Design and Development of a bio-inspired, remotely operated underwater vehicle	TiHAN IIT Hyderabad	Dr. Vijay Kumar Dalla	Mechanical Engineering	2000000.00	2024
20	Maximum service life of LPG cylinders (as per IS 3196-1) and reconditioned cylinders (as per IS 13258)	BIS	Dr. Arvind Kumar Patel	Mechanical Engineering	300000.00	2024
21	Design Development and Manufacturing of a Bacterial Dark Fermentation Bioreactor for Sustainable Hydrogen Generation from Restaurant Food Waste to Achieve Waste to Wealth Goals in Jharkhand	JCSTI	Dr. Dulari Hansdah	Mechanical Engineering	661900.00	2026
22	Design of renewable energy system for rural and remote area under the Programme on National Mission on Power Electronics Technology Phase-III (NaMPET-III) Programme	Ministry of Electronics & Information Technology	Prof. R.V. Sharma	Mechanical Engineering	1893000.00	2019
23	To design a hybrid battery thermal management system for Indian driving conditions	JCSTI	Prof. Prabha Chand	Mechanical Engineering	995000.00	2026
24	Design and development of sustainable electric mini tractor for specially challenge marginal farmers.	JCSTI	Dr. K Namrata	Electrical Engineering	605000.00	2025
25	Practical Implementation of Non-Fragile Sliding Mode Controller based Non-Isolated Universal On-Board Battery Charger for Electric Vehicle	SERB	Dr. Mrinal Kanti Sarkar	Electrical Engineering	2743092.00	2022
26	Design and Experimental Evaluation of Resonant Gate Driving in High-Efficiency GaN-Based Three-Phase Propulsion Drives for E-Mobility	ANRF	Dr. Kundan Kumar	Electrical Engineering	2789264.00	2025
27	Design and Development of AI-Driven Portable Wireless Charging Pads for Agricultural Drones and Farm Equipment	JCSTI	Dr. Kundan Kumar	Electrical Engineering	185000.00	2026
28	Diagnosis and Assessment of Thermally Aged XLPE Cable Insulation using Non-destructive Test Technique in Time and Frequency Domain	ANRF	Dr. Supriyo Das	Electrical Engineering	3970400.00	2026

29	Antenna and Metamaterial inspired low cost non-invasive sensor for vital health (Anaemia, Diabetes,and Arrhythmia Detection) monitoring in Rural Jharkhand	JCSTI	Dr Rashmi Sinha	Electronics and Communication Engineering	540000.00	2026
30	Design and development of FPGA based IOT system for monitoring industrial pollution.	JCSTI	Dr. Kunal Singh	Electronics and Communication Engineering	390000.00	2025
31	Design and development of System on Chip based next generation IoT System for Industry 4.0 with Functional Safety and Security Features	MEITY	Dr. Amit Prakash	Electronics and Communication Engineering	9600000.00	2023
32	Smart and Effective IoT and GNSS Technology based Tea farming and Tourism for Tea Community Development	HEFA	Dr. Surajit Kundu	Electronics and Communication Engineering	4843000.00	2024
33	Affordable Cognitive Radio 'Antenna-FSS' Development at 5G/beyond 5G and UWB/SWB Spectrums	SERB	Dr. Surajit Kundu	Electronics and Communication Engineering	1980264.00	2023
34	Design and development of antennas for early detection of oral/mouth canser, lungs and breast canser.	JCSTI	Dr. Surajit Kundu	Electronics and Communication Engineering	719000.00	2025
35	Development of AI enable tools for the identification of deepfake/morphed image as investigation input for the law inforsement agency.	JCSTI	Dr. Rajashree Nayak	Electronics and Communication Engineering	450000.00	2025
36	Design and Development of Online Sensor for Measurement of Moisture Content in Coal.	Eastman Crusher Co. P. Ltd	Dr. Swagatadeb Sahoo	Electronics and Communication Engineering	660000.00	2025
37	Development of handheld/ drone-compatible, affordable 'Microwave Scanner-GNSS Station' (MSGS) for buried object detection with centimeter-level precision	TEXMIN, IIT (ISM), DST	Dr. Surajit Kundu	Electronics and Communication Engineering	2095712.00	2023
38	Few-shot Learning for Rapid Multi-parametric MRI Reconstruction from Sparsely Sampled Weighted MRI Data	ANRF	Dr. Munendra Singh	Electronics and Communication Engineering	3312480.00	2026
39	Design and Development of a Low-Power, High-Speed FPGA-Based System for Real-Time Epileptic Seizure Detection	ANRF	Dr. Kaushik Das	Electronics and Communication Engineering	3431340.00	2026
40	The Data Driven Agriculture Model to Mitigate Climate Change Impact on The Rice Crop in Indo- ASEAN Countries	SERB	Dr. Subrata Dutta	Computer Science Engineering	2880000.00	2024

41	Design and Development of Artificial Intelligence based Model for Conversion from Santali to English	JCSTI	Dr. Koushlendra Kumar Singh	Computer Science Engineering	400000.00	2024
42	Fusion technology development of electrical tomography and machine learning for high quality waste plastic recycle	DST	Dr. Koushlendra Kumar Singh	Computer Science Engineering	1066000.00	2024
43	Study & comparative analysis of Tokenization schemes for North East (NE) Indian Languages	BIS	Dr. Koushlendra Kumar Singh	Computer Science Engineering	738760.00	2026
44	Development of Low-Cost Artificial Intelligent System for Prediction of Bone Mineral Density (BMD) From Plain Radiographic Images in Osteoporosis Detection	ICMR	Dr. Jitesh Pradhan	Computer Science Engineering	21846653.00	2025
45	IoT and Image Analysis based Water QualitY Monitoring for the Tribal Villages of Jharkhand	JCSTI	Dr. Dilip Kumar Yadav	Computer Science Engineerin	5,00,000	2026
46	Study of the requirements of Iron oxide powder for use in foundries	BIS	Dr. Binay Kumar	Metallurgical and Materials Engineering	500000.00	2024
47	Revitalizing the sacred art of ancient ironmaking: Documentation, recommendations, and future directions	IKS	Dr. Ram Krishna	Metallurgical and Materials Engineering	950000.00	2023
48	Study on the classification, recommended practices, requirements and test methods for chromate conversion coatings on aluminium and aluminium alloys	BIS	Dr. Aravind Gali	Metallurgical and Materials Engineering	600000.00	2024
49	Study of quality requirements of carbon steel forgings for shipbuilding industry	BIS	Dr. Kuntal Maji	Production and Industrial Engineering	500000.00	2024
50	Study of quality requirements of grades of Hot-rolled medium and high carbon steel sheet, plate and strip used for general engineering purposes	BIS	Dr. Kuntal Maji	Production and Industrial Engineering	550000.00	2024
51	Use case compilation of Smart manufacturing in India	BIS	Dr. Shubham Tripathi	Production and Industrial Engineering	505000.00	2024
52	Development of a novel and indigenous process chain for fabrication of low-cost, high-performance, super-abrasive, micro-grinding tools	SERB	Dr. Tushar Banerjee	Production and Industrial Engineering	3531264.00	2023
53	Centre for Innovation and Incubation	NIDHI i-TBI	Prof. Amaresh Kumar	Production and Industrial Engineering	42700000.00	2024

54	Wire Arc Additive Manufacturing of multi-material components using submerged arc process	JCSTI	Dr. Susmita Datta	Production and Industrial Engineering	1000000.00	2026
55	Development of a process chain for flexible sheet metal forming using additive manufactured tooling	ANRF	Dr. Kuntal Maji	Production and Industrial Engineering	4797132.00	2026
56	UBA	UBA	Dr. Shakti Prasad	Mathematics	1000000.00	2022
57	Development of Advanced Cryptographic Primitives using Multivariate Public Key Cryptography as an Aid to IoT and Blockchain Technology	CEFIPRA	Dr. Sumit Kumar Debnath	Mathematics	9000000.00	2023
58	Digital Inclusion and Policy Innovation for Indigenous Women Entrepreneurs in Rural Asia-Pacific: A Pathway to the SDGs,	AASSREC	Dr. Neha Jaiswal	HSSM	5575 AUD	2025
59	Identifying the Role of Women Leaders and Experiences of Women Beneficiaries of the Innovation-Driven Sustainable Healthcare System through PM-JAY: A study of selected districts of Jharkhand	ICSSR	Dr. Neha Jaiswal	HSSM	500000.00	2025
60	Impact assessment of entrepreneurship schemes of the Government of India on Tribal women of Jharkhand	ICSSR	Dr. Akanksha Shukla	HSSM	1300000.00	2024
61	Nickel Catalysed Photo-Assisted Conversion of Carbon Dioxide to Formate and Carboxylic Acids in Presence of Non-Innocent Red-Ox Active Ligands	SERB	Dr. Moumita Mondal	Chemistry	2882000.00	2022
62	Synthetic strategies for the construction of fused heterocycles, distal C-H functionalization and asymmetric synthesis of furan and pyran ring fused with desymmetrized cyclopentene-1,3 dione	SERB	Dr. Tapas Das	Chemistry	4185493.00	2024
63	"Integrated Mathematical and Computational Modelling for Predictive Nanotoxicology of Low-Dimensional Materials".	ARG-MATRICS	Dr. Titas Kumar Mukhopadhyay	Chemistry	1500000.00	2026
64	Microplastic pollution in freshwater ecosystems: Identifying the Sources, Effects, and Solutions	SERB	Dr. Balram Ambade	Chemistry	4356244.00	2024
65	Development of low cost magnetic nano composites for purification of containment water	JCSTI	Dr. S.S. Pati	Chemistry	495000.00	2025
66	Delineation of molecular mechanism of interaction between the human E2 ubiquitin-conjugating enzyme and the substrate-bound bacterial effector Lpg2455/GobX, a U-Box E3 ubiquitin ligase, during Legionella infection.	DST	Dr. Pooja Kumari	Chemistry	3500000.00	2026