

FY: 2025-26

Department of Applied Geology

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
1	Geoscientific Study of Conventional Core Samples from the Upper Carbonate Formation of the Baghewala Oil Field, Oil India Limited, Rajasthan Field	Oil India Limited, Jodhpur, Rajasthan	41.30	-	-	Prof. Prabodha Ranjan Sahoo

Department of Applied Geophysics

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
2	Raising awareness among school students and teachers about earthquake hazards and risk mitigation strategies	DST, New Delhi	10.22	30.05.2025	29.05.2026	Prof. Mohit Agrawal
3	Natural Hydrogen hotspots mapping and characterization in India through the lens of geoscientific data, and artificial intelligence technology	Anusandhan National Research Foundation (ANRF)	61.97	11.06.2025	10.06.2028	Prof. Partha Pratim Mandal
4	Magnetotelluric investigation in and around Kopili Fault Zone, Assam, North-East India: Insights into seismotectonic, probable fluid-seismicity relation and strain partitioning"	Anusandhan National Research Foundation (ANRF)	35.38	11.06.2025	10.06.2028	Prof. Ujjal Kumar Borah
5	3D subsurface modelling of structurally controlled geological provinces for critical mineral resource assessment	Indian Space Research Organisation (ISRO), Bengaluru	29.78	01.09.2025	31.08.2028	Prof. Sanjit Kumar Pal
6	Conduction Land Subsidence Study using DInSAR methodology for EOGEPL, Durgapur	Essar Oil and Gas Exploration and Production Ltd., Durgapur, West Bengal	5.00	06.12.2025	05.12.2026	Prof. Saurabh Datta Gupta
7	Development of the Joint Inversion algorithm to capture the feasibility for Carbon Capture and Storage (CCUS) operation in the Coal Bed Methane (CBM) reservoir and Volcanic sediments in the Shahdol area of India	Transcontinental Natural Resources Pvt. Ltd. (TNRL), Surat, Gujarat	10.71	26.03.2026	25.03.2029	Prof. Saurabh Datta Gupta

Department of Chemical Engineering

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
8	Investigation of jamming transition in polydisperse dense shear thickening suspensions of spherical and non-spherical particles	Anusandhan National Research Foundation (ANRF)	61.91	03.06.2025	02.06.2028	Prof. Aritra Santra
9	Study of possibilities of conversion of biomass into useful Chemicals (scope A & phase – I)	Dhampur Sugar Mills Ltd., Bijnor	9.74	12.07.2025	16.09.2025	Prof. Aditya Kumar
10	Development of Innovative and Cutting-Edge Indigenous Technologies for Critical Minerals Exploration and Smart/Sustainable Mining	Anusandhan National Research Foundation (ANRF)	230.00	14.07.2025	13.07.2026	Prof. Ejaz Ahmad
11	Study of possibilities of conversion of biomass (Molasses) into useful Chemicals (scope B & phase – I)	Dhampur Sugar Mills Ltd., Bijnor, Uttar Pradesh	9.74	25.08.2025	09.10.2025	Prof. Aditya Kumar
12	Urban Mining of Critical Minerals, Including Lithium, Cobalt, and Graphite from End-of-Life EV Batteries	Wadhvani Innovation Network-Center of Excellence (WIN-CoE), Dhanbad	151.62	01.01.2026	31.12.2027	Prof. Ejaz Ahmad

Department of Chemistry & Chemical Biology

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
13	Development of a cost-effective eco-friendly sustainable process for efficient production of hydrazine to fulfill its increasing market demand using bio-inspired iron-porphyrin-based electrocatalysts that can catalyze the reduction of hydroxylamine to hydrazine	Anusandhan National Research Foundation (ANRF)	69.60	05.06.2025	04.06.2028	Prof. Asmita Singha
14	Recovery of high-grade Iron ore from low grade Goethitic ore by Innovative Exfoliation Technique	Tata Steel Limited, Jamshedpur	31.10	11.08.2025	10.02.2028	Prof. Sagar Pal
15	Next generation copolymeric reagent for cost-efficient beneficiation of low-grade iron ore	Ministry of Mines (MoM)	53.05	18.11.2025	17.11.2027	Prof. Sagar Pal
16	Real-time imaging of cancer metabolism using RNA-based sensors	Department of Biotechnology	63.19	30.04.2026	29.04.2029	Prof. Sourav Kumar Dey
17	Hydro-alkylation and amination of olefins via Cobalta-photoredox catalyzed Reductive and Oxidative Radical Polar Crossover	Anusandhan National Research Foundation (ANRF), New Delhi	29.04	18.12.2025	17.12.2027	Prof. Soumitra Maity (Mentor)
18	Biocompatible Metal Based Nano Porous Co-ordination Polymer for Targeted Drug Delivery Application	Anusandhan National Research Foundation (ANRF), New Delhi	29.04	19.01.2026	18.01.2028	Prof. Sagar Pal (Mentor)

19	Covalent Organic Framework Derived Photothermal Materials for Sustainable Energy Applications and Water Purification	Anusandhan National Research Foundation (ANRF), New Delhi	119.00	15.01.2026	14.01.2031	Prof. Hari Pada Nayek (Mentor)
20	Tunable Fluorescent Organic Nanoparticles, Based on the Scaffold of a Single Benzene-Based Fluorophore, 5-(tert-Butyl)-2-hydroxy-1,3-isophthalaldehyde, for Enhanced Emission, White Light Generation and Bioimaging: Syntheses and Spectroscopic Studies	Anusandhan National Research Foundation (ANRF), New Delhi	87.24	14.03.2026	13.03.2029	Prof. Soumit Chatterjee
21	Data-Driven Insights and Molecular Dynamics Simulations-Based Discovery of Novel TNIK Inhibitors for Triple-Negative Breast Cancer	Dassault Systemes Foundation (DSF), Pune	20.00	18.02.2026	17.02.2029	Prof. Naga Rajiv Lakkaniga
22	Chemo-Catalytic Conversion of Cellulose to Platform Chemicals	Anusandhan National Research Foundation (ANRF), New Delhi	61.20	12.03.2026	11.03.2029	Prof. Chanchal Halder
23	Rational Design and Development of Photo-Active Reagents for Diversified C-N Bond Forming Processes via Strategic Exploitation of N-Centered Radical Persistence	Anusandhan National Research Foundation (ANRF), New Delhi	84.84	16.03.2026	15.03.2029	Prof. Soumitra Maity
24	Improving the photostability and brightness of fluorogenic RNA aptamers for live cell imaging by understanding the photophysics of RNA-fluorophore interaction	Anusandhan National Research Foundation (ANRF), New Delhi	85.43	28.03.2026	27.03.2029	Prof. Sourav Kumar Dey
25	Sustainable Valorization of Kendu Leaves: Development of Biodegradable Alternatives	Office of the Conservator of Forests and State Silviculturist, Bhubaneswar, Govt. of Odisha	49.50	25.03.2026	24.03.2029	Prof. Ganesh Cahndra Nayak

Department of Civil Engineering

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
26	Bilingual (English & Hindi) LLM Framework for Real-Time Interpretation of Tailing Dam Break Simulations for Improved Emergency Planning and Decision Support	TEXMiN (Technology Innovation in Exploration & Mining Foundation), DST, New Delhi	21.62	13.11.2025	12.11.2027	Prof. Abhishek Kumar Pandey
27	A Novel Machine Learning-Driven Real-Time Flash Flood Forecasting Framework Using 3D Storm Bias-Corrected and Downscaled Satellite-Based Precipitation Estimates	Anusandhan National Research Foundation (ANRF), New Delhi	50.04	12.03.2026	11.03.2029	Prof. Shushobhit Chaudhary

28	Augmenting Fire Vulnerability of Masonry Structures: Field Investigation, Laboratory Testing, Development of ML Based Model, and Suggestive Guidelines towards Fire Safety	Anusandhan National Research Foundation (ANRF), New Delhi	40.44	19.03.2026	18.03.2029	Prof. Sanket Nayak
29	Investigating the impact of saturation and stress state on the mechanical behavior and design characteristics of subgrade soils under repeated loadings	Zydex Industries Private Limited, Vadodara, Gujarat	15.01	25.03.2026	24.03.2030	Prof. Avinash Kumar Singh

Department of Computer Science & Engineering

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in ₹ Lakhs)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
30	CREDIBLE: Collaborative and Intelligent Edge for Robust AI in Dynamic and Uncertain Environments	Massil Technologies Private Limited, Hyderabad, Telangana	35.44	-	-	Prof. Tarachand Amgoth
31	Design and Development of a Deep Learning Assisted Smart Phone based Application Towards the Automated Cheque Clearing Process in Banking System	IIT Bhilai Innovation and Technology Foundation (IBITF), Durg, Chhattisgarh	27.96	06.08.2025	05.08.2027	Prof. Soumen Bag
32	Design and implementation of High Capacity Reversible Data Hiding Schemes for Medical Image Transmission	Anusandhan National Research Foundation (ANRF), New Delhi	3.47	01.11.2022	31.10.2025	Prof. Partha Pratim Roy
33	Unlocking the vast knowledge held in analog long-term time-series in ecology using text recognition and AI methods	La Rochelle University, France	8.33	01.12.2025	30.11.2027	Prof. Partha Pratim Roy
34	AI-Driven Digital Twins for Proactive Failure Prediction in Mining Assets	Wadhvani Innovation Network-Center of Excellence (WIN-CoE), Dhanbad	76.38	01.01.2026	31.12.2027	Prof. Tarachand Amgoth
35	Development and Validation of a Physics-Informed Digital Twin for Predictive Maintenance of Induction Motor	TEXMiN (Technology Innovation in Exploration & Mining Foundation), DST, New Delhi	23.00	25.02.2026	24.11.2027	Prof. Partha Pratim Roy

Department of Electronics Engineering

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in ₹ Lakhs)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
36	Development of 2D Material-Enhanced Silicon Photonic Devices for High-Performance Point-to-Point Optical Communication	Anusandhan National Research Foundation (ANRF)	67.63	03.06.2025	02.06.2028	Prof. Swati Rajput

37	Harnessing the Harmonics in Sequential Load Modulated Balanced Amplifiers for Efficiency and Linearity Enhancement for 5G/6G Applications	Anusandhan National Research Foundation (ANRF)	69.23	04.06.2025	03.06.2028	Prof. Yericharla Mary Asha Latha
38	Development of Orthogonal Time Frequency Space based physical layer for severe Doppler environment	DRDO (DEAL), Dehradun	47.09	01.06.2025	30.11.2026	Prof. Himanshu Bhusan Mishra
39	Development of Integrated Photonic Devices Incorporating Silicon Plus Photonics for Next Generation Optical Communication	DST, New Delhi	21.00	22.05.2023	21.05.2028	Prof. Swati Rajput
40	Design and Development of a planar structure embedded dual-band waveguide bandpass filter at C-band (3400-3425 MHz and 4180-4200 MHz) to acquire and track the NavIC satellite CDMA signals	Indian Space Research Organisation (ISRO), Govt. of India, Bengaluru	24.78	03.09.2025	02.09.2027	Prof. Sushrut Das
41	Dual band tracking feed with dichroic mirror for deep space antenna	Indian Space Research Organisation (ISRO), Govt. of India, Bengaluru	29.10	16.09.2025	15.09.2028	Prof. Santanu Dwari
42	High-Performance supercapacitors and electrochemical biosensors from Ayurvedic biomass waste: A circular economy approach toward sustainable energy and sensing solutions	Anusandhan National Research Foundation (ANRF), New Delhi	67.02	12.03.2026	11.03.2029	Prof. Shalu Rani

Department of Electrical Engineering

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lacs)	Start Date of Project (in dd-mm-yy)	End Date of Project (in dd-mm-yyyy)	Name of PI
43	Next-Generation Electric Braking: Designing Compact, Efficient, and Reliable Systems for Heavy-Duty Electric Transport and Beyond	Anusandhan National Research Foundation (ANRF)	57.82	04.06.2025	03.06.2028	Prof. Sethupathy S
44	The Smart Energy Metering and Billing System (SEMB): Enhancing EV Charging Infrastructure for Efficiency and Accessibility	IIT Bhilai Innovation and Technology Foundation (IBITF)	13.68	11.07.2025	10.07.2027	Prof. Srinivas Lakshmi Vedantham
45	Cyber resilient wide area control of inverter-based power networks	Anusandhan National Research Foundation (ANRF)	65.98	22.07.2025	21.07.2028	Prof. Priyatosh Mahish
46	Design and Development of Methane Gas Sensor for Underground Coal Mine Applications	Convergent Wireless Communications Private Limited, Bangalore	4.50	28.07.2025	27.07.2027	Prof. Sanjoy Mandal
47	Development of Robust Gas Hazard Monitoring System suitable for Underground gassy coal mines using DSET Filter and CNN	Wadhvani Innovation Network-Center of Excellence (WIN-CoE), Dhanbad	115.06	01.01.2026	31.12.2027	Prof. Tanmoy Maity

48	Design and Development of a Hybrid AC–DC Multi-Port Converter for Intelligent and Sustainable EV Charging	Anusandhan National Research Foundation (ANRF), New Delhi	62.66	20.03.2026	19.03.2029	Prof. Ashok Kumar
49	Indigenous Development of Hand-held Multigas Detector for underground coal mining for real time monitoring	Coal India Limited (Central Mine Planning & Design Institute Limited) [CIL(CMPDI)], Ranchi	44.63	23.03.2026	22.03.2028	Prof. Sanjoy Mandal
50	Development and Demonstration of a Solar Hydrogen Based Clean Cooking and Micro-Power Generation System for Rural Households	Indian Oil Corporation Limited (IOCL), Patna, Bihar	76.42	04.12.2025	31.12.2026	Prof. Gauri Shankar

Department of Environmental Science & Engineering

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in ₹ Lacs)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
51	Partitioning of projected evapotranspiration at basin-scale under changing climate and dynamic terrestrial environment	Anusandhan National Research Foundation (ANRF)	46.58	11.06.2025	10.06.2028	Prof. Riya Dutta
52	Scientific Study to Assess the Ground and Surface Water Quality at Muri for Pre-Monsoon and Post-Monsoon	Hindalco Industries Limited, Ranchi, Jharkhand	10.03	26.06.2025	25.06.2026	Prof. Brijesh Kumar Mishra
53	Study of the Earth-Atmosphere radiation budget and its linkage to atmospheric feedback processes	Indian Space Research Organisation (ISRO), Bengaluru	31.20	18.09.2025	17.09.2028	Prof. Riya Dutta
54	Urban Biodiversity Studies including Development and Assessment of City Biodiversity Index for Major Cities and Urban Areas in Bihar	Bihar State Biodiversity Board (BSBB), Patna Bihar	20.00	18.12.2025	17.12.2027	Prof. Vipin Kumar
55	Study of River Health of River Teesta in Sikkim	Public Health Engineering Department, Gangtok, Govt. of Sikkim	70.37	05.12.2025	04.12.2028	Prof. Brijesh Kumar Mishra
56	Integration of IoT-Enabled Sensors with Groundwater Models for Real-Time Monitoring of Nitrate Transport: Field Application to Lower Ganga River Basin	Anusandhan National Research Foundation (ANRF), New Delhi	51.18	19.03.2026	18.03.2029	Prof. Tinesh Pathania
57	Near-Time Flash Flood Forecasting in Mining-Affected Catchments: Integrating Hydrological Models, Altered Topography & Weather Data	Coal India Limited (Central Mine Planning & Design Institute Limited) [CIL(CMPDI)], Ranchi	229.17	01.04.2026	30.09.2028	Prof. Vittal H

Department of Fuel, Minerals & Metallurgical Engineering

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakhs)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
58	Development of a closed loop approach for enhanced conversion of agro-residues to liquid hydrocarbons using multifunctional pyrolysis-derived porous graphitic carbon catalyst	Anusandhan National Research Foundation (ANRF)	58.03	03.06.2025	02.06.2028	Prof. Shubhi Gupta
59	Evaluation of Scrap Sorting Strategies for Quality Optimization in EAF Steelmaking	Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	22.27	23.05.2025	30.06.2026	Prof. Vishnu Teja Mantripragada
60	Revolutionizing Hydrogen Energy: Development of Vanadium-Based Metal Membranes with Enhanced Permeation and Diffusion Dynamics for Next-Generation Sustainable Energy and Process Optimization	Anusandhan National Research Foundation (ANRF)	56.40	09.06.2025	08.06.2028	Prof. Kasturi Sala
61	Beneficiation of iron ore slimes using reverse flotation and study on the synergistic effect of collectors	Ministry of Steel, New Delhi	42.00	18.09.2025	31.01.2027	Prof. Shravan Kumar
62	Design and Development of High Strength-Ductile Titanium Alloys	Indian Space Research Organisation (ISRO), Bengaluru	25.00	18.12.2025	17.12.2027	Prof. Rahul M R
63	Evaluation of Microstructure Development and Precipitation Kinetics of High Nitrogen Stainless Steel (used in Ballistic Applications) during Hot Working	Defence Research & Development Organization (DRDO),	0	02.01.2026	01.01.2029	Prof. Rahul M R
64	Passive daytime radiative cooling-based dew harvester for Tritium sampling	Department of Atomic Energy, Board of Research in Nuclear Sciences (DAE-BRNS),	37.66	01.04.2026	31.03.2029	Prof. Kesavan Ravi
65	Development of Cyber-Physically Enabled Laser-Assisted Low-Pressure Cold Spray (LA-LPCS) Based Repair Methodology for Worn Metallic Components in Mining Machinery	TEXMiN (Technology Innovation in Exploration & Mining Foundation), DST, New Delhi	40.88	01.01.2026	31.12.2027	Prof. Kesavan Ravi
66	Technology development for extraction of critical metals from spent neodymium iron boron (NdFeB) magnets	Wadhvani Innovation Network-Center of Excellence (WIN-CoE), Dhanbad	57.43	01.01.2026	31.12.2027	Prof. Aarti Kumari
67	Production of 66% Fe-containing iron ore fines concentrate using magnetic flocculation	Tata Steel Limited, Jamshedpur	22.47	11.08.2025	10.02.2027	Prof. Anand Anupam
68	Bio-Based Carbon Materials for Industrial Energy Systems: Decarbonisation Pathways for India's Energy Transition	Climitra Carbon Private Limited, New Delhi	50.63	06.02.2026	01.02.2029	Prof. Shalini Gautam

69	Development of Shape-Adaptive PLA Scaffolds functionalized with Allogenic Osteoblast-Derived Matrix for Alveolar Bone Regeneration in a Translational Minipig Model	Indian Council of Medical Research (ICMR), Govt. of India,	32.45	25.02.2026	24.02.2029	Prof. Kesavan Ravi
70	Hydrometallurgical Recovery of Silver from Metal-Rich Residue Generated after Pyrolysis of Waste Solar Photovoltaic Panels	Reterra Green-Solutions Pvt. Ltd., Surat, Gujarat	8.05	10.03.2026	09.03.2027	Prof. Aarti Kumari
71	Optimization of Pyrolysis Process for Waste Silicon Solar Panels: Evaluation of gases and condensates	Reterra Green-Solutions Pvt. Ltd., Surat, Gujarat	7.59	10.03.2026	09.03.2027	Prof. Busigari Rajasekhar Reddy

Department of Humanities & Social Sciences

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakhs)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
72	Our Craft is Known but No One Knows 'Us': A Sociological Study of Women Applique Workers of Pipili, Odisha	ICSSR, New Delhi	11.00	25.09.2025	24.09.2026	Prof. Sruti Kanungo
73	Towards Viksit Bharat: Case Studies on Tribal Female Sarpanches in the Mayurbhanj District of Odisha	ICSSR, New Delhi	5.50	25.09.2025	24.09.2026	Prof. Dipannita Chand
74	Role of Incivility, Gender Discrimination and Politics at Workplace among the Working Women in Tamil Nadu, Kerala and Karnataka	ICSSR, New Delhi	13.20	25.09.2025	24.09.2026	Prof. Indumathy J
75	Neuroticism, Self-Control, Sensation Making and Cyber Security Behaviour - Moderating Role of Cyber Awareness	(DRDO), , New Delhi	25.53	05.02.2026	04.02.2029	Prof. Indumathy J
76	Belief, Memory, and Modernity: Structural Transformations in the Religious Practices and Ritual Performances of the Mal Paharia Community	ICSSR, New Delhi	19.80	01.04.2026	31.04.2028	Prof. Nirban Manna
77	Shruti and Smriti Conceptions of the Indian Family System: Kutumb Prabodhan and Its Relevance to Global Cultural Diplomacy and Comparative Family Research	ICSSR, New Delhi	12.10	01.04.2026	31.03.2028	Prof. Gyan Prakash
78	Healing through Place and Affective Pilgrimage among Senior Citizens in Jharkhand	ICSSR, New Delhi	17.60	01.04.2026	31.03.2028	Prof. Debashrita Dey
79	Psychological and Behavioural Effects of Kalaripayattu Practice among Indian Youth: A Mixed-Methods Study	ICSSR, New Delhi	13.20	01.04.2026	31.03.2027	Prof. Sathya Narayana Sharma

Department of Management Studies & Industrial Engineering

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakhs)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
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80	Exploring the role of Digital Skill-Based Courses in Emerging Areas on Empowering Young Minds: Pilot Project	Eastern Coal Field (ECL), Sodepur Area, West Bengal	4.95	16.06.2025	15.12.2025	Prof. Himanshu Gupta
81	Enhancing Community Livelihoods through Capacity Building analysing the Role of Skill-Based Courses in Emerging Areas: Pilot Project	Eastern Coal Field (ECL), Sodepur Area, West Bengal	4.95	16.06.2025	15.12.2025	Prof. Himanshu Gupta
82	Promoting STEM Education for Underprivileged and Project Affected Person (PAP) Students of BCCL areas in Dhanbad Through Innovative Techniques: A Logical, Digital and Experimental Approach for Learning	BCCL, Dhanbad	33.13	22.01.2026	21.01.2027	Prof. Rashmi Singh
83	Harnessing the role of Digital Upskilling to Empower the Next Generation: Pilot Project	BCCL, Dhanbad	35.00	31.03.2026	30.07.2026	Prof. Prof. Shashank Bansal

Department of Mining Engineering

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in ₹ Lakhs)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
84	Development of Indigenous Synthetic Aperture Radar Data Analytics Engine powered by Big Data and Deep Learning	DST, New Delhi	48.40	09.06.2025	08.06.2028	Prof. Dheeraj Kumar
85	Assessment of critical minerals in mine and mineral wastes for sustainable utilisation	Ministry of Mines	25.75	24.03.2025	23.03.2027	Prof. Devi Prasad Mishra
86	Design of paste backfill for Singhali underground coal mines, Korba, Chhattisgarh	TMC Mineral Resources Private Limited, Raipur, Chhattisgarh	35.40	18.08.2025	17.08.2026	Prof. Santosh Kumar Behera
87	Quarterly Subsidence Monitoring Survey by using Total Station as main technique and partial use of integrated approaches for Khetri & Kolihan Copper Mine for 20 Quarters (05 Years)	Hindustan Copper Limited, Jhunjhunu, Rajasthan	78.23	31.10.2025	30.10.2030	Prof. Mohammad Soyeb Alam
88	Conducting scientific study for the loading/stability analysis of the developed pillars of seam I and Seam II below the OB dump at New Akashkinaree Colliery'	BCCL, Dhanbad	9.99	13.10.2025	12.10.2026	Prof. Ashok Kumar
89	AI-enabled Mine Inspection for Health and Safety and Data Analyses for Development of Risk Indices (AIMSURE)	Wadhvani Innovation Network-Center of Excellence (WIN-CoE), Dhanbad	81.59	01.01.2026	31.12.2027	Prof. Siddhartha Agarwal

90	Detection and Monitoring of Slope stability using Satellite-based SAR Interferometry (InSAR) and Ground-based Observation Techniques for Tara (East & West) Coal Mines, Churulia	Tara Coal Mining Private Limited, Durgapur, Bardhaman, West Bengal	106.20	16.01.2026	31.03.2028	Prof. Mohammad Soyeb Alam
91	CoRE-MiN Centre of Excellence	The Ministry of Mines (MoM), Government of India	0.00	-	-	
92	Development of Innovative Extraction Method for Safer Extraction of Coal Seam by Underground Method with Higher Productivity and Percentage of Extraction using Continuous Mining System	Coal India Limited (Central Mine Planning & Design Institute Limited), Ranchi	131.37	02.03.2026	01.03.2027	Prof. Arka Jyoti Das

Department of Mechanical Engineering

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in ₹ Lakhs)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
93	Design and Development of 6-DoF Parallel Simulation Platform for Desktop Applications	Axial Aero Private Limited, Hyderabad, Telangana	36.53	01.07.2025	31.01.2026	Prof. Zafar Alam
94	Development of Test Rig for Deep-Sea Exploration and/or Mining using Low Turbulence Underwater Robot	TEXMiN (Technology Innovation in Exploration & Mining Foundation), Institute Innovation Hub, Dhanbad	13.08	27.06.2025	26.06.2027	Prof. Subhankar Sen
95	Development of Bio-Mimicking Underwater Robots for Sustainable Mining	Jharkhand Council on Science, Technology and Innovation (JCSTI), Department of Higher and Technical Education, Govt. of Jharkhand	7.34	29.05.2025	28.05.2028	Prof. Antarip Poddar
96	Ultra-High Molecular Weight Polyethylene (UHMWPE) nanocomposites using alloying and composite technology for bio-medical applications	Anusandhan National Research Foundation (ANRF)	57.24	11.07.2025	10.07.2028	Prof. Ashis Mallick
97	Minimizing the effect of pegging and blinding in screens using Beating Phenomenon	Tata Steel Limited, Jamshedpur	33.79	11.08.2025	10.02.2028	Prof. Madan Lal Chandravanshi
98	Error quantification of a porous brain perfusion model based on experiments and non-porous simulations for accelerated stroke treatment development	The Royal Society, London, United Kingdom	14.00	01.09.2025	31.09.2027	Prof. Ajay Bhandari

99	Improvement in Mechanical Properties of Nanostructures Embedded GFRP Radar Absorbing Composite Structures	DRDO (ADE),Bangalore (Defence Research and Development Organisation, Aeronautical Development Establishment)	9.72	21.08.2025	20.08.2026	Prof. Vivek Bajpa
100	Exploring the Usage of Wire Mesh for Facile Fabrication of Monodisperse Hydrogel Beads and Reinforced Hydrogel Sheet: Prospects for Drug Release, Tissue Engineering, Water Harvesting, and Oil-Water Separation	Anusandhan National Research Foundation (ANRF), New Delhi	29.04	01.12.2025	30.11.2027	Prof. Deepak Kumar Mandal (Mentor)
101	Development and validation of digital twin to improve adjuvant treatment planning and prevent glioblastoma (GB) recurrence in post-surgical GB patients	Indian Council of Medical Research (ICMR), Govt. of India,	41.47	01.01.2026	31.12.2028	Prof. Ajay Bhandari
102	Design and Development of Advanced Anti-collision System for Heavy Vehicles in Mining Sectors	Northern Coalfields Limited (NCL), Singrauli, Madhya Pradesh	49.19	24.02.2026	23.02.2028	Prof. Kalyan Kumar Singh
103	Development of Reservoir-on-a-Chip: an Electrically-Assisted Platform Handling Polymeric Fluids for Enhanced Oil Recovery Applications	Anusandhan National Research Foundation (ANRF), New Delhi	69.68	30.03.2026	29.03.2029	Prof. Antarip Poddar
104	Design and fabrication of an automated modular system for mechanical dismantling of solar panels & recovery of valuable components	TEXMiN (Technology Innovation in Exploration & Mining Foundation), DST, New Delhi	269.02	25.03.2026	24.11.2027	Prof. Amit Rai Dixit
105	Minimac's Centre of Excellence in Fluid Testing, Research and Analytics, IIT (ISM) Dhanbad	Minimac Systems Pvt. Ltd., Pune	137.25	01.12.2025	30.11.2030	Prof. Ajit Kumar

Department of Mathematics & Computing

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakhs)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
106	Developing Generalizable AI Models for Drone Imagery in Complex and Varied Indian Landscapes	Anusandhan National Research Foundation (ANRF)	59.83	04.06.2025	03.06.2028	Prof. Sudhakar Kumawat
107	Improving the performance of 6TiSCH and DSME based Internet of Things Networks	Anusandhan National Research Foundation (ANRF)	60.12	04.06.2025	03.06.2028	Prof. Alakesh Kalita
108	Dynamic Modeling of Wet Granulation Integrating Multiscale PBM-DEM and Coarse-Graining Approaches to Track Size and Temperature Evolution	Anusandhan National Research Foundation (ANRF)	41.61	12.06.2025	11.06.2028	Prof. Ashok Das

109	Mathematical Modeling of Intraneuronal Transport in the Human Brain Using Exclusion Processes: Analysis and Simulation	Anusandhan National Research Foundation (ANRF)	33.24	12.06.2025	11.06.2028	Prof. Atul Kumar Verma
110	Applications of various machine learning (ML) techniques for predicting, detecting, and analyzing rare earth elements (REEs) in different geological and environmental contexts	TEXMiN (Technology Innovation in Exploration & Mining Foundation), Institute Innovation Hub, Dhanbad	16.62	18.07.2025	17.07.2027	Prof. Subhashis Chatterjee
111	Mineral Prospectivity Mapping of Critical Minerals (Li & REE) in Pegmatite of Koderma Mica Belt using Hybrid CNN Approach	TEXMiN (Technology Innovation in Exploration & Mining Foundation), DST, New Delhi	18.50	01.09.2025	31.08.2027	Prof. Sanjeev Anand Sahu
112	Improving the Performance of IEEE 802.11 AH UAV Networks in Mission-Critical Defense Environments	NMICPS Technology Innovation Hub on Autonomous Navigation (TiHAN) Foundation, IIT Hyderabad	21.92	10.10.2025	09.10.2026	Prof. Alakesh Kalita
113	Robust Signal Reconstruction and Prediction in Aeronautical System Using Derivative Sampling Expansions	DRDO (AR&DB), New Delhi	44.98	15.01.2026	14.01.2029	Prof. A. Antony Selvan
114	Arithmetic, Analytic and Combinatorial Web of Modularity	DST, New Delhi	35.00	18.08.2025	17.08.2030	Prof. Ajit Singh
115	Resilient Edge-LoRa System for Early Gas Hazard Detection in Coal Mines and Adjacent Communities	Jharkhand Council on Science, Technology and Innovation, (JCSTI), Govt. of Jharkhand	5.96	06.03.2026	05.03.2029	Prof. Tamoghna Ojha
116	Prediction of Relapse time and Recovery Rate of Substance Use Disorder Based on Longitudinal Survey Study Applying Statistical and Machine Learning Tools	Anusandhan National Research Foundation (ANRF), New Delhi	35.01	28.03.2026	27.03.2029	Prof. Shuvashree Mondal
117	Elevated global atmospheric CO ₂ levels pose a major threat to ecosystems and environmental systems: Human behaviour as a potential mitigation strategy	Anusandhan National Research Foundation (ANRF), New Delhi	29.04	02.12.2025	01.12.2027	Prof. Ranjit Kumar Upadhyay (Mentor)

Department of Petroleum Engineering

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
118	Development of an integrated workflow based on geoscientific data analysis for identification of Coal Bed Methane (CBM) resource prospectivity at the bidding stage	Directorate General of Hydrocarbons (DGH), Ministry of Petroleum & Natural Gas, Government of India, Noida	8.80	06.06.2025	05.12.2026	Prof. Vinay Kr. Rajak

119	Development of Novel Zwitterionic Biosurfactants for Improved Hydrate-Based Geological Carbon Dioxide Sequestration: A Strategy for Combating Global Climate Change	Anusandhan National Research Foundation (ANRF)	41.64	03.06.2025	02.06.2028	Prof. Chandan Sahu
120	Development and Optimization of Eco-Friendly Surfactants / Polymer Dust Suppressants for Coal Mine Areas of Jharkhand	Jharkhand State Pollution Control Board (JSPCB), Ranchi	31.90	22.07.2025	21.04.2026	Prof. Ajay Mandal
121	GHG estimation from abandoned wells and coal mines	Ministry of Environment, Forest and Climate Change (MoEFCC), Govt. of India	78.90	01.08.2025	31.07.2026	Prof. Rajeev Upadhyay
122	Development of Prospectivity Mapping Framework and Tools for Geological Hydrogen Exploration	Safechem Enterprises Pvt. Ltd. (Spectrum Impact), Mumbai, Maharashtra	57.50	04.07.2025	31.03.2026	Prof. Raj Kiran
123	Development of High Performance Drag Reducing Agents for Efficient Pipeline Transport of Heavy Crude Oils	Royal Castor Products Limited (RCPL), Sidhpur, Patan, Gujrat	14.33	16.09.2025	15.09.2026	Prof. Vikas Mahto
124	Development of Novel Self-Healing Cement Additive for Oil and Gas Fields of Oil India Limited	Oil India Limited, Dibrugarh, Assam	97.21	09.09.2025	08.09.2027	Prof. Vikas Mahto
125	Development of hybrid drilling techniques for efficient and sustainable critical mineral exploration and mining	Ministry of Mines (MoM), Govt. of India	10.29	19.12.2025	18.12.2028	Prof. Mohammed Hamid Siddique
126	Development of a Novel Formate-Based Injection Method for Enhanced Carbon Storage and Oil Recovery in Cambay Basin Oil Fields: Supporting Energy Security and Net-Zero Goals	Anusandhan National Research Foundation (ANRF), New Delhi	31.38	16.03.2026	15.03.2029	Prof. Neetish Kumar Maurya

Department of Physics

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount including Manpower (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd-mm-yyyy)	Name of PI
127	Energetics of Quantum Technologies in Hybrid and Many-body Systems	Anusandhan National Research Foundation (ANRF)	47.04	12.06.2025	11.06.2028	Prof. Avijit Misra
128	Exploring the intricacies of strongly interacting hot nuclear matter through heavy quark phenomenology in nucleus-nucleus collisions	DST, New Delhi	35.00	18.06.2025	17.06.2030	Prof. Manu Kurian
129	Introducing a novel optical device to study protein aggregation in real time for disease diagnosis	Anusandhan National Research Foundation (ANRF), New Delhi	71.76	23.03.2026	22.03.2029	Prof. Umakanta Tripathy
130	Strong correlation, entanglement, and complexity in topological and flat band systems: A GPU-accelerated Quest	Anusandhan National Research Foundation (ANRF), New Delhi	27.54	23.03.2026	22.03.2029	Prof. Sudeshna Sen