

Department of Fuel, Minerals & Metallurgical 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
1	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
2	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
3	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
4	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
5	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
6	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
7	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

8	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
9	Technology development for extraction of critical metals from spent neodymium iron boron (NdFeb) magnets	Wadhwani Innovation Network-Center of Excellence (WIN-CoE), Dhanbad	57.43	01.01.2026	31.12.2027	Prof. Aarti Kumari
10	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
11	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
12	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
13	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
14	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