

**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	Design and development of High Entropy shape memory alloys for actuators application in the defence sector	DRDO, New Delhi	29.62	05.07.2024	04.07.2026	Prof. Rahul M R
2	Austenite stabilization in Mn-Si-Al based Q&P steels through chemistry and partitioning schedule Optimization	Tata Steel Limited, Jamshedpur	35.40	29.07.2024	28.07.2027	Prof. Madhumanti Bhattacharyya
3	Development of single-phase BCC refractory high entropy alloys for high temperature applications using machine learning (ML) and experimental approaches	DRDO (AR&DB), New Delhi	0.00	11.07.2024	10.07.2027	Prof. Rahul M R
4	Design and Development of Abrasion Resistant Alloys for Sustainable Mining Operations	Ministry of Mines, New Delhi	26.04	31.07.2024	30.07.2026	Prof. Avanish Kumar
5	Development and Standardization of Biochar and By-products for Application in the Indian Iron & Steel Industry	Sentra.World Technologies Private Limited, Bangalore	611.69	17.12.2024	16.12.2027	Prof. Shalini Gautam
6	Synthesis of gas atomized high mn-high cr steel powder for cold spraycladding application in reclamation of slurry handling systems	CSIR, New Delhi	13.00	16.09.2024	15.09.2027	Prof. Madhumanti Bhattacharyya
7	Microwave integration in urban mining processes for sustainable recovery of critical elements	Ministry of Mines, New Delhi	40.75	21.03.2024	20.03.2026	Prof. Aarti Kumari
8	Development of low cost hydrometallurgical process for beneficiation and extraction of Indium values from Sphalerite ores	Ministry of Mines, New Delhi	35.30	21.03.2024	20.03.2026	Prof. Gaurav Jha
9	Development of an Advanced Twin Roll Casting (TRC) System for Minimizing Segregation in Aluminum & Magnesium Alloys: Advancing Sustainable Recycling in the Circular Economy	TEXMiN (Technology Innovation in Exploration & Mining Foundation), Institute Innovation Hub, Dhanbad	49.30	24.03.2025	23.06.2026	Prof. Kasturi Sala