

Department of Mechanical Engineering
Indian Institute of Technology (Indian School of Mines), Dhanbad

Externally Funded Research Projects (Ongoing)

SI No.	Project Title	Funding Agency	PI/Co-PI	Start Date	End Date	Tenure (months)	Total Amount Sanctioned in Rs
1.	Augmentation of Research Facility in the Department of Mechanical Engineering	DST (FIST)	HOD, (PI) Co-PIs Dr. Sachin Kumar Singh, Dr. Deepak Kumar Mandal, Dr. Pawan Kumar Singh, Dr. Vivek Bajpai, Dr. Subrata Kumar Ghosh, Dr. Alok Kumar Das, Dr. Shibayan Sarkar, Dr. Amitava Mandal, Dr. Rakesh Kumar	14 Jul, 2019	14 Jul, 2024	60	1,87,00,000.00
2.	Design and Development of Novel Adsorption Systems for Green Refrigeration and CO ₂ Capture	DST (SERB)	Dr. Satyabrata Sahoo (PI)	12 Mar, 2019	12 Mar, 2022	36	41,92,280.00

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3.	Development of Light Weight High Entropy Alloy (HEA) Nano-composites	DST (SERB)	Dr. Ashis Mallick (PI)	18 Mar, 2019	18 Mar, 2022	36	45,88,000.00
4.	Model Updating & Aero-elastic Control of Delaminated Aircraft Structures	DST (SERB)	Dr. P. K. Mahato (PI)	29 Jun, 2019	29 Jun, 2022	36	46,80,456.00
5.	Modelling of Wear in Radial Hydraulic Turbine	DST	Dr. Shibayan Sarkar (PI)	29 Nov, 2019	29 Nov, 2022	36	36,11,759.00
6.	Development of Eco-friendly Magnesium Alloy Nano composites for Structural & Biomedical Applications	ASEAN-India Science & Technology Development Fund (AISTDF)	Dr. Ashis Mallick (PI)	01 Nov, 2018	01 Nov, 2020	24	41,02,000.00

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7.	Design, Development and supply of special purpose equipment for cutting of composite hardware	Advanced Naval Research Programme (ANSP), DRDL Hyderabad	Dr Amit Rai Dixit, (PI) Dr Alok Kumar Das (Co-PI)	28 May, 2020	27 May, 2021	12	39,61,595.00
8	Formability Study of Ti-6Al-4V Alloy and its surface Characterization	Defense Research and Development Organisation (DRDO)	Dr. Alok Kumar Das (PI), Dr. Amit Rai Dixit (Co- PI)	11Aug, 2020	11Aug, 2021	12	9,80,000.00
10.	Establishment of Hybrid Micro Machining Technology Using μ -ECM and μ -EDM Processes for Aerospace Materials	Defense Research and Development Organisation, Hyderabad (DRDO)	Dr. Alok Kumar Das (PI)	Oct, 2016	Oct, 2020	48	5,92,8000

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11.	Development of a selection Methodology for Road Header and Tunnel Boring Machine and Road Header for different Geological Character for Road Tunneling (Collaboration with CIMFR – Nagpur)	Ministry of Power	Dr. V. M. S. R. Murthy, Department of Mining Department (PI), Dr. Somnath Chattopadhyaya (Co-PI)	Oct, 2016	Oct, 2020	48	1,23,00,000
12.	Investigations into the Planning and Design Aspects governing the selective Coal Cutting Technology Using Surface Miner For Various Rock Conditions For Clean Coal Production	DST	Dr. V. M. S. R. Murthy, Department of Mining Department (PI), Dr. Somnath Chattopadhyaya (Co-PI)	June, 2019	May, 2022	36	3,33,00,000

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13.	Design and Development of a Mechanical Ventilator	IIT(ISM)	Dr. Arun Dayal Udai (PI) Dr. A R Dixit (Co-PI)	July, 2020	July, 2021	12	1,039000