

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

Externally Funded Research Projects (Completed)

Sl No.	Project Title	Funding Agency	PI/Co-PI	Start Date	End Date	Tenure (months)	Total amount Sanctioned Rs
1.	Experimental Investigation on the Heat Transfer Enhancement of Hybrid Nano Fluids in a Plate Heat Exchanger	SERB	Dr. Subrata Kumar Ghosh (PI)	07 June, 2017	06 June, 2020	36	2053500.00
2.	Critical Investigation into the Cracking Related to Stress Corrosion in Manganese Steel Weldment	Defense Research and Development Organization	Dr. Somnath Chattopadhyaya (PI)	04 Nov, 2018	04 May, 2020	18	997100.00
3.	Study, investigation and development of machining parameters of FRP Composites using a Laser to maintain better surface integrity	Defense Research and Development Laboratory, Hyderabad	Dr. Alok Kumar Das (PI)	25 Dec, 2015	25, Nov 2017	24	977000

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4.	Nano Lubricating Fluids (NLF) and Thermally Conducting Fluids (TCF): Study of Micro-structural Changes in IC Engine Components and Thermal Property Evaluation	Defense Research and Development Organization	Dr. Subrata Kumar Ghosh (PI)	28 Mar, 2018	28 Sep, 2019	18	950000
5.	Early Detection of Bearing Fault and Fatigue Crack in a Rotor System	DST (SERB)	Dr. Sachin Kumar Singh (PI)	13 Apr, 2016	13 Apr, 2019	36	3133599.00
6.	Investigation on Hydrokinetic Turbine Performance Corresponds Variable Rotor Shape and Surface Velocity Using Different Augmentation	DST (SERB)	Dr. Shibayan Sarkar (PI)	10 Apr, 2016	10 Apr, 2019	36	2062000.00

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7.	Impact of Emulsified Drop On a Heated Substrate	DST (SERB)	Dr. Deepak Kumar Mandal (PI)	29 Sep, 2016	28 Sep, 2019	36	2948000.00
8.	Development of New Strategy to Enhance Cylindrical Wire Electrical Discharge Turning Process	DST (SERB)	Dr. Amitava Mandal (PI)	13 Jun, 2017	12 Dec, 2020	36+6 (ext)	3361600.00
9.	Development of Modular Type High Speed Ultra-Precision Machining Cente	DST (SERB)	Dr. Vivek Bajpai (PI)	30 Jun, 2017	30 Jun, 2020	36	3516100.00
10.	On the Reductions of Airfoil Turbulence Noise By Wavy edges	DST (SERB)	Dr. S. Narayanan (PI) , Dr. Rabindranath Hota (Co-PI)	21 Sep, 2016	20 Dec, 2019	36+3 (ext)	3344000.00

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11.	Investigation of Heat Transfer Enhancement in Some Novel Geometries Using Nanofluids for Electronic Cooling Application	DST (SERB)	Dr. Pawan Kumar Singh (PI), Dr. Subrata Kumar Ghosh (Co-PI)	24 Apr, 2016	24 Apr, 2019	36	3322300.00
12.	Utilization of Waste Heat from Diesel Engine Exhaust Gases for Air-Conditioning and Performance enhancement of the Engine	UGC	Dr. R. K. Das (PI)	01.04.2010	31.01.2013	36	7,56,000.00
13.	Performance Study of Jet Plate and Longitudinal Fins Solar Air Heater	UGC	Dr. S. N Singh (PI)	March, 2009	April, 2012	36	7,00,000.00

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14.	Wear & Friction Study of Nano Composites	UGC New Delhi	Dr. K. K. Singh (PI)	March 2013	April 2016	36	5,85,000.00
15.	Diagnosis of a Vibrating Structural Failure Through Modal Analysis	DST (SERB)	Dr. M. L. Chandravanshi (PI)	Sept, 2013	May, 2016	36	17,03,000.00
16.	Active Modal Control of Composite Structure	DST (SERB)	Dr. P K Mahato (PI)	Dec, 2014	Dec, 2018	48	27,10,000.00
17.	Development of Condition Monitoring Laboratory through Lube Oil Analysis	DST (FIST)	Dr. Subrata Kumar Ghosh (PI) , Alok Kumar Das (Co-PI)	April, 2013	March, 2018	60	50,00,000/-

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18.	Design and Fabrication of An Experimental Facility for Measurement of Acoustic Impedance of Afterburner Screech Liner	DRDO	Dr. Rabindra Nath Hota (PI) , Dr. S. Narayanan (Co-PI)	Jan, 2016	May 2018	24	99,50,000/-
19.	Current Status, Enablers and Barriers of Implementation of Cellular Manufacturing System in Indian Industries	DST	Dr. A R Dixit (PI)	Nov, 2009	Nov, 2012	36	720000/-
20.	Study, Investigation and Development of Machining parameters of FRP composites using Laser to Maintain better surface Integrity	DRDL	Dr. A. K Das (PI) , Dr. A R Dixit (Co-PI)	Dec 2015	June 2017	18	970000/-