

## Department of Mechanical Engineering

| SL. No. | Project 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       | JAZANU/2021-2022/810/MECH         | Structural And Machinery Failure Analyses Through Vibration And Acoustic Techniques   | Jazan University, Saudi Arabia             | 6  | 08.09.2021                            | 08.08.2024                          | Prof. M.L. Chandravanshi    |
| 2       | DST(SERB)(291)/2021-2022/811/MECH | (Vritika) Study of Two Phase Flow   | DST-SERB, New Delhi                        | 0.5  | 23.06.2021                            | 22.10.2021                          | Prof. Pawan Kr. Singh       |
| 3       | DST(SERB)(292)/2021-2022/812/MECH | (Vritika) Investigation of Thermofluidic Characteristic of Nanofluid-Cooled Microchannels   | DST-SERB, New Delhi                        | 0.5  | 23.06.2021                            | 22.10.2021                          | Prof. Pawan Kr. Singh       |
| 4       | CIL(18)/2021-2022/830/MECH        | Design And Development of Knee And Spinal Smart Protective Devices For Improving The Health And Safety of Miners  | Coal India Limited                         | 72.06  | 15.11.2021                            | 14.11.2023                          | Prof. K.K. Singh            |
| 5       | DST(SERB)(303)/2021-2022/846/MECH | Investigation of The Spall Behavior of Glass-Filled Epoxy Composites Using Laser Spallation Technique   | DST-SERB, New Delhi                        | 29.97  | 30.12.2021                            | 29.12.2023                          | Prof. Sarthak Sambit Singh  |
| 6       | DST(SERB)(313)/2021-2022/861/MECH | Fluid-Structure Interactions In A Power-Law Fluid   | DST-SERB, New Delhi                        | 6.60   | 14.01.2022                            | 13.01.2025                          | Prof. Subhankar Sen         |
| 7       | DST(SERB)(298)/2021-2022/837/MECH | Development of Highly Accurate Immersed Interface Method For Direct Numerical Simulation of Fluid-Structure Interaction Problems Under Compressible Flow Regime | DST-SERB, New Delhi                        | 24.02  | 15.12.2021                            | 14.12.2024                          | Prof. Swagata Bhaumik       |
| 8       | DST(SERB)(299)/2021-2022/839/MECH | Investigation of The Human Retinal Vasculature For Early Prognosis of Microaneurysm Regions   | DST-SERB, New Delhi                        | 27.61  | 23.12.2021                            | 22.12.2023                          | Prof. Ajay Bhandari         |
| 9       | DST(SERB)(300)/2021-2022/841/MECH | Evaluation of An Evaporating Nanofluid Meniscus For Improved Performance of Heat Pipes  | DST-SERB, New Delhi                        | 33.7   | 28.12.2021                            | 27.12.2024                          | Prof. Pawan Kr. Singh       |
| 10      | DST(SERB)(302)/2021-2022/843/MECH | On The Reductions of Aerofoil-Turbulence Noise Through Wavy Leading And Trailing Edge Serrations  | DST-SERB, New Delhi                        | 34.09  | 28.12.2021                            | 27.12.2024                          | Prof. S. Narayanan          |
| 11      | DRDO(17)/2021-2022/855/MECH       | Critical Investigation On Alloy Stainless Steel Bi Metallic Joining Using Friction Stir Welding For Aerospace Application                                       | DRDO                                       | 9.97   | 24.01.2022                            | 23.07.2023                          | Prof. Somnath Chattopadhyay |
| 12      | DST(SERB)(311)/2021-2022/858/MECH | Impact of Pesticide Drops On A Leaf: Minimizing of The Use of Pesticides From The Study of The Spread   | DST-SERB, New Delhi                        | 33.94  | 21.01.2022                            | 20.01.2025                          | Prof. Deepak Kr. Mandal     |
| 13      | JANATICS/2021-2022/859/MECH       | Design And Development of Hardware For Controls Using Ball Screw/Belt Type Linear Actuators   | Janatics India Private Limited, Coimbatore | 38.44  | 19.01.2022                            | 18.10.2023                          | Prof. Arun Dayal Udai       |

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| 14 | DST(SERB)(322)/2021-2022/877/MECH | Fabrication of Different Grades of Tool Steel By Twin Wire Arc Additive Manufacturing Combined With In-Situ Alloying       | DST-SERB, New Delhi          | 37.41 | 03.02.2022 | 03.01.2025 | Prof. Amitava Mandal       |
| 15 | DST(SERB)(310)/2021-2022/857/MME  | Enhancing The Operational Efficiency of A Hydraulic Excavator Machine By Introducing A Novel Energy Recuperative Mechanism | DST-SERB, New Delhi          | 39.58 | 21.01.2022 | 20.01.2025 | Prof. Niranjan Kumar       |
| 16 | NORMET/2021-2022/864/MME          | Analysis of Operator'S Field of View of Normet Equipment: Visibility From Cabin As Per Is/Iso 5006:2017                    | Normet India Private Limited | 10.62 | 02.04.2022 | 10.03.2022 | Prof. L.A. Kumaraswamidhas |