

Research Projects Submitted
Department of Chemical Engineering

2024-25

1. Rishita Kar, Biswajit Mondal, **Tanushree Ghosh**, Submitted a project, Title- “Fuel grade Bio-ethanol from agricultural waste”, to MSME IDEA HACKATHON 4.0, Amount - Rs. 8.85 Lacks, on 04.10.2024.
2. Madhurima Santra, Biswajit Mandal, **Lipika Das Samanta**, submitted a project entitled “Performance of smokeless biomass chulha with water heating arrangements for rural and urban kitchens”, to Ministry of Micro, Small & Medium Enterprises and Amount - Rs. 4 lakhs, on 03.10.2024.
3. Prince Kumar Sah, **Barnali Bej**, Biswajit Mandal Submitted a project, Title: Floating dome bio-digester for production of biogas and bio-fertilizer with wind powered agitator, to MSME, Govt. of India, Amount - Rs. 6.40 Lacks, on 26.09.2024.
4. Swarnajit Bhattacharjee, **Biswajit Mandal**, submitted a project entitled “IoT-Enabled Smart Water Quality Monitoring and Control System using LoRaWAN Communication for Aquaculture and Industrial Applications” to Ministry of Micro, Small & Medium Enterprises and Amount - Rs.5.6 lakhs, on 26.09.2024
5. Swarnajit Bhattacharjee, **Biswajit Mandal**, submitted a project entitled “Inert gas driven non-electrical solar tracker for enhanced solar panel efficiency” to Ministry of Micro, Small & Medium Enterprises and Amount - Rs.15 lakhs, on 26.09.2024
6. Sresth Kumar, **Biswajit Mandal**, submitted a project entitled “Hybrid Solar photovoltaic and vertical axis wind turbine system for higher capacity factor in domestic and commercial installations ” to Ministry of Micro, Small & Medium Enterprises and Amount - Rs.3.7 lakhs, on 26.09.2024
7. Rituparna Saha, **Biswajit Mandal**, Amit Biswas, submitted a project entitled “IOT enable smart soilless stevia farming chamber” to Ministry of Micro, Small & Medium Enterprises and Amount - Rs.5.65 lakhs, on 26.09.2024
8. Muskan, **Biswajit Mandal**, submitted a project entitled “Natural Sweetner Extraction from Stevia Leaves” to Ministry of Micro, Small & Medium Enterprises and Amount - Rs.6.5lakhs, on 26.09.2024
9. Nishat Fatma, **Biswajit Mandal**, submitted a project entitled “Bio-fertilizer loaded coco peat blocks for stevia cultivation” to Ministry of Micro, Small & Medium Enterprises and Amount - Rs.3.75 lakhs, on 26.09.2024
10. Ankita Mazundar, **Biswajit Mandal**, submitted a project entitled “Frying oil filtration machine using lignocellulosic bio-filter probe” to Ministry of Micro, Small & Medium Enterprises and Amount - Rs.5 lakhs, on 26.09.2024.
11. **Sourav Poddar**, Submitted a project, Title: Optimized Pyrolysis of Biomass for Sustainable Water-Energy Nexus Char Utilization in Electrochemical Water Treatment and HydrogenProduction with Carbon Capture for GHG Emission Reduction, to SERB, DST, Amount - Rs. 49,94,000/-, on 30.03.2025..