

List of External funded Projects undertaken by the Department of Chemical Engineering:

Sl. No.	Project Title	Funding Agency	Amount in ₹	Duration
1	Sustainable Technologies for Water Recovery & Energy Harvesting	FIST DST	68,00,000	2021-2026
2	Exploring the effect of Single and Bimetallic-Doped Graphene Oxide (GO) Microporous Architecture by Pool Boiling for High-Quality Steam Generation	SERB, DST	38,30,000	2022-2025
3	Modelling, Simulation and Design of Mg/H ₂ O Sea water Batteries using cost-effective Cathodic Materials	DRDO	9,76,001	2022-2023
4	Study and development of highly efficient multichannel photocatalytic micro/milli reactor for textile waste water treatment exploiting hollow spherical zinc based metal oxide composite	SERB-SRG	20,61,850	2020-2022
5	Integrated hydrodynamic cavitation - membrane distillation technology for enhanced water recovery from industrial effluent	DST (TMD)	21,00,000	2020-2022
6	Design modifications of TATA-JK dense medium Cyclone for the efficient separation of middling coal	R&D TATA Steel	9,20,400	2019-2021
7	Microbial Recovery of Biogenic Methane from Coal Rejects with CO ₂ Sequestration Using Novel Hybrid Geo Photobioreactor and Reclamation of the Site	DST (CLEAN COAL)	17,63,000	2019-2022
8	Development of Biomodified Carbon Paste Electrode for detection nad removal of heavy metals	SERB	42,64,000	2019-2022
9	Development of Electrospun Membranes with Graded Hydrophobicity for Membrane Distillation	SERB-SRG	26,40,000	2019-2022
10	Tuning the Performance of Thin-Film Composite Membranes on Electrospun Support for Engineered Osmosis in water remediation	MHRD-SPARC	49,89,600	2019-2022

11	Process Intensification of Post Combustion CO2 capture using Rotating Packed bed Reactor concept	SERB-ECRA	30,55,800	2019-2022
12	Development of hydrothermal liquefaction of microalgae for production of bio-oil	DST-INSPIRE Faculty	35,00,000	2018-2021
13	Simultaneous removal of organic and inorganic pollutants from wastewater using Bio electrochemical systems	KSCSTE	14,40,000	2017-2021
14	A highly flexible Piezo-tribo nanogenerator based on electrospun PVDF nanofibers containing the modified and decorated carbonaceous nanoparticles for capturing human kinematics	SERB	22,89,500	2018-2021
15	CFD Model development of commercial scale circulating fluidized bed combustor for understanding hydrodynamic behaviors	M/S ISGES Heavy Engg. Ltd, Noida	2,35,000	2019-20