

Department of Chemistry & Chemical Biology

Sl. No.	Title of The Project	Full Name of Funding Agency	Sanctioned Amount (in Lakh)	Start Date of Project (in dd-mm-yyyy)	End Date of Project (in dd- mm-yyyy)	Name of PI
1	Development of a cost-effective eco-friendly sustainable process for efficient production of hydrazine to fulfill its increasing market demand using bio-inspired iron-porphyrin-based electrocatalysts that can catalyze the reduction of hydroxylamine to hydrazine	Anusandhan National Research Foundation (ANRF)	69.60	05.06.2025	04.06.2028	Prof. Asmita Singha
2	Recovery of high-grade Iron ore from low grade Goethitic ore by Innovative Exfoliation Technique	Tata Steel Limited, Jamshedpur	31.10	11.08.2025	10.02.2028	Prof. Sagar Pal
3	Next generation copolymeric reagent for cost-efficient beneficiation of low-grade iron ore	Ministry of Mines (MoM)	53.05	18.11.2025	17.11.2027	Prof. Sagar Pal
4	Real-time imaging of cancer metabolism using RNA-based sensors	Department of Biotechnology	63.19	30.04.2026	29.04.2029	Prof. Sourav Kumar Dey
5	Hydro-alkylation and amination of olefins via Cobalta-photoredox catalyzed Reductive and Oxidative Radical Polar Crossover	Anusandhan National Research Foundation (ANRF), New Delhi	29.04	18.12.2025	17.12.2027	Prof. Soumitra Maity (Mentor)
6	Biocompatible Metal Based Nano Porous Co-ordination Polymer for Targeted Drug Delivery Application	Anusandhan National Research Foundation (ANRF), New Delhi	29.04	19.01.2026	18.01.2028	Prof. Sagar Pal (Mentor)
7	Covalent Organic Framework Derived Photothermal Materials for Sustainable Energy Applications and Water Purification	Anusandhan National Research Foundation (ANRF), New Delhi	119.00	15.01.2026	14.01.2031	Prof. Hari Pada Nayek (Mentor)
8	Tunable Fluorescent Organic Nanoparticles, Based on the Scaffold of a Single Benzene-Based Fluorophore, 5-(tert-Butyl)-2-hydroxy-1,3-isophthalaldehyde, for Enhanced Emission, White Light Generation and Bioimaging: Syntheses and Spectroscopic Studies	Anusandhan National Research Foundation (ANRF), New Delhi	87.24	14.03.2026	13.03.2029	Prof. Soumit Chatterjee
9	Data-Driven Insights and Molecular Dynamics Simulations-Based Discovery of Novel TNIK Inhibitors for Triple-Negative Breast Cancer	Dassault Systemes Foundation (DSF), Pune	20.00	18.02.2026	17.02.2029	Prof. Naga Rajiv Lakkaniga
10	Chemo-Catalytic Conversion of Cellulose to Platform Chemicals	Anusandhan National Research Foundation (ANRF), New Delhi	61.20	12.03.2026	11.03.2029	Prof. Chanchal Halder

11	Rational Design and Development of Photo-Active Reagents for Diversified C-N Bond Forming Processes via Strategic Exploitation of N-Centered Radical Persistence	Anusandhan National Research Foundation (ANRF), New Delhi	84.84	16.03.2026	15.03.2029	Prof. Soumitra Maity
12	Improving the photostability and brightness of fluorogenic RNA aptamers for live cell imaging by understanding the photophysics of RNA-fluorophore interaction	Anusandhan National Research Foundation (ANRF), New Delhi	85.43	28.03.2026	27.03.2029	Prof. Sourav Kumar Dey
13	Sustainable Valorization of Kendu Leaves: Development of Biodegradable Alternatives	Office of the Conservator of Forests and State Silviculturist, Bhubaneswar, Govt. of Odisha	49.50	25.03.2026	24.03.2029	Prof. Ganesh Cahndra Nayak