



## Department of Chemistry

### Ongoing and Completed Project Details

- **External Projects (On Going)**

S. No.	Name of Department	Name of PI/ CO PI	Funding Agency	Title of Project	Amount	Sanction Year
1.	Department of Chemistry	Dr. Inshad Ali Khan (PI), Central University of Rajasthan; Dr. Lalita Ledwani (Co-PI) Manipal University Jaipur; SMS Medical College; JLN Medical College; National Institute of Ayurveda and Banasthali Vidhyapeeth	Science & Engineering Research Board (SERB)	"Creation of ABSL-3 facility at CURAJ under Rajasthan bio-cluster for infectious diseases, therapeutics and diagnostics".	10Cr*	2022-2027
2.	Department of Chemistry	Dr. Praveen Surolia	DST-SERB	Development of Air and Moisture Stable Novel Perovskite Charge Mediators for Sensitized Solar Cells	46 lakhs	2021
3.	Department of Chemistry	Dr. Akhil Agrawal Central University of Rajasthan (PI) <b>Dr. Lalita Ledwani</b> (Co-PI)	Department of Science and Technology, Govt. of India Sanctioned number: DS T/SSTP/2018/23(4)	Development and Scale up of Desert Soilification Technology (DST) for Land Reclamation in Western Rajasthan	33.724 Lakhs	2019-2022
4.	Department of Chemistry	Dr. Shikha Jain (PI), Department of	Department of	Harnessing Cyanobacterial	8.00 Lakhs	2018-2019



		Chemistry, MUJ  <b>Dr. Lalita Ledwani</b> (First Co-PI)	Biotechnology, Govt. of India Sanctioned number: DBT- BT/IN/IND O- US/FOLDS COPE/39/2 015 (Category- B)	Diversity of Extreme Environments of Rajasthan for Screening of UV Protectant Molecules.		
5.	Department of Chemistry	Dr. Veena Dhayal	Science & Engineering Research Board (SERB) Teachers Association for Research Excellence (TARE)	Chemical tailoring of Epoxy/ steel interface to enhance their synergistic effect for corrosion protection: Modelling and Experimental investigations	15 lakhs	2020- 2023

• **External Projects (Completed)**

S. N.	Name of Department	Name of PI/ CO PI	Funding Agency	Title of Project	Amount	Duration
1.	Department of Chemistry	PI: Dr. Shikha Jain (WoS-A), Mentor: Dr. Lalita Ledwani	DST, Govt. of India under WOS- A scheme	Production of mycosporine like amino (MAAs) from cyanobacteria isolated from the hypersaline environments	Rs. 32,00,000	3 years
2.	Department of Chemistry	PI: Dr. Debasis Behera, Co-PI: Dr. Rahul Shrivastava	(UGC-DAE CSR, Kalpakkam Node)	Efficient and eco- friendly hydrophobic anticorrosion coating of nanocomposites formed by polymeric matrix and nitrogen rich heterocyclic	Rs. 12,58,000	3 years



				molecules-grafted graphene oxide as nanofiller		
3.	Department of Chemistry	PI: Dr. Rahul Shrivastava, Co-PI: Dr. Arunava Agarwala	(SERB, DST, New Delhi)	Fluorescent molecular probe for detection of reactive oxygen species (ROS) and metal ions	Rs. 21,15,000	3 years
4.	Department of Chemistry	PI: Dr. Praveen Surolia, Co-PI: Dr. V.S. Dhaka	SERB, DST, New Delhi)	Forecasting the power output of sensitized solar cells (SSC) with varying structural and weather parameters using soft computing techniques	Rs. 68,22,000	3 years
5.	Department of Chemistry	PI: Dr. Rahul Shrivastava	(DST, Rajasthan)	Nanoparticles Based Molecular Probes: Effective and Selective Molecular Tools for Sensing of Fluoride and other Toxic Ions from Drinking water	Rs. 4,00,000	3 years
6.	Department of Chemistry	PI: Dr. Lalita Ledwani, Co-PI: Dr. Akhil Agrawal(CUR)	(DST, Rajasthan)	Development of Innovation Technology for Wastewater Treatment From Textile Industrial Sites of Pali Regional, Rajasthan	Rs. 4,00,000	3 years
7.	Department of Chemistry	<b>Dr. Lalita Ledwani (PI)</b> Prof. A.D. Vyas (Co-PI) Dr. Pushpendra Kumar (Co-PI)	KURITA Water and Environment Foundation, Japan Sanctioned Number: 15P026	Textile industries and ground water contamination around Jaipur	JPY 300,000	2015- 2016



• **Seed Grant Project (Completed)**

S. N.	Name of Department	Name of PI/CO PI	Title of Project	Amount	Sanction Year
1.	Department of Chemistry	Dr Nitu Bhatnagar (PI); Co-PI: Prof Lalita Ledwani, Dr Tanmoy Chakraborty, Dr Madan Mohan Sharma	Experimental and Theoretical Study of Nano Bioactive Molecules	Rs. 1,00,000	2013
2.	Department of Chemistry	Dr Rahul Shrivastava (PI), Co-PI: Dr Arunava Agarwala	Synthesis of metal oxide nanoparticles	Rs. 1,00,000	2014
3.	Department of Chemistry	Dr Tanmoy Chakraborty (PI)	A computational study of nano-composite materials invoking conceptual density functional based descriptors	Rs. 2,90,000	2016
4.	Department of Chemistry	De. Sriparna Ray (PI)	Development of water soluble Ru-complexes for C-H activation reactions	Rs. 2,90,000	2018