

Sponsored Research Project Grant – Department of Physics, SoET, PDEU

Title of the Project	Investigators	Funding Agency	Sanctioned Project Gran (INR)	Duration (in Years)
Energy Mapping, Forecasting of Solar PV and Empowerment of the Government, Private and Residential Sector of select districts of Gujarat	Akhilesh Shukla (PI), Mayank Gupta (Co-PI) , K.S. Pritam (Co-PI), Shreekant Varshney (Co-PI)	ICSSR	6,66,500	1Yrs
Synthesis and Applications of Thermally Expandable Microspheres (TEM)	Dr. Prakash Chandra (PI) Dr. Manoj Kumar (Co-PI) Brijesh Tripathi (Co-PI) Dr. Sukanta Das (Co-PI)	Microspheres (India)	5,50,000	2Yrs Extended End date: 25-09-2026
Master Batch Preparation Containing Un Expanded Microspheres	Dr. Prakash Chandra (PI) Dr. Manoj Kumar (Co-PI) Brijesh Tripathi (Co-PI)	Microspheres (India)	2,75,000	2Yrs
Statewide Renewable Energy Awareness and Technical Training Initiative	Dr. Bharatkumar B. Parekh	GEDA	25,50,000	1 Yr.
Startup: PRAVAHAKA SOLUTIONS PVT LTD: Develop conductive ink-based flexible electronics.	Dr. Anup Sanchela	DST	7,00,000	
Development of visible light sensitive inexpensive thin film photocatalysts for removal of heavy metal ions in drinking water	Dr. Abhijit Ray	GUJCOST	18,00,000	3Yrs
Electrocatalysts and Electrode Design Countermeasures in Direct Seawater Electrolysis for Hydrogen Generation	Dr. Abhijit Ray	DST-CRG	33,00,000	3Yrs
Indegenious development of Micro probe station	Dr Pankaj Yadav	DST TDP	26,00,000	5Yrs
Hybrid Perovskite Based Flexible Memristor on Paper Substrate for Data Storage and Neuromorphic Computing	Dr. Ankur Solanki	GUJCOST	37,33,200	3Yrs

3D printing of organic-inorganic composite scintillation detectors	Pavan Gurrala (PI), Sheetal Rawat (Co-PI) , Brijesh Tripathi (Co-PI) , Mohit Tyagi (PC)	BRNS	28,50,600	3Yrs
Development of Low Cost and Flexible Memristor Devices for High Density Data Storage and Neuromorphic Applications	Ankur Solanki (PI), Mohendra Roy (Co-PI), Prahlad Baruah (Co-PI)	SERB	71,21,832	3Yrs
Development Of Stable and Efficient Memristor Devices Based on Mixed Halide Perovskites	Dr. Ankur Solanki	PDEU	10,00,000	2yrs
Mechanochemical synthesis of stable and efficient perovskite solar cells	Dr Pankaj Yadav	GUJCOST	36,00,000	3Yrs
Centre for Transparent Perovskite Devices for Building Integrated Photovoltaics (TRADE)	Dr Pankaj Yadav	DST SERB	41,00,000	3Yrs
Probing Fundamental Physics with Cosmological Observations	Dr. Mansi Dhuria	DST	21,13,000	3Yrs
Study of heterogeneous precipitation patterns with the help of aerosol - cloud properties: Focus on western India and Arabian Sea	Dr. Rohit Srivastava	SERB	20,70,000	3yrs
Water Innovation Centre: Technology, Research and Education (WICTRE)	Multi-institutions involved (IIT - Bombay, IIT - Hyderabad, NCL- Pune, PDPU-Gandhinagar) From Dr. Manoj Kumar Pandey – PI and Dr. Brijesh Tripathi – Co-PI	DST	5.55 Crore (PDPU Share: Rs. 41.876 Lakhs)	5yrs
To develop the homemade thermopower and resistivity measurement setup	Dr. Anup Sanchela	PDEU	10,00,000	2Yrs
Design and Development of High Resolution Spectroscopic Diagnostics on SST-1 and Aditya-U Tokamak	Dr. Balamurali Krishna Mayya K.	BRNS	30,00,000	5yrs
Mechanosynthesis of 2D Perovskite Solar Cells.	Dr Pankaj Yadav	DST- Nano Mission	56,00,000	3Yrs
Mechanochemical approach for Perovskite Solar Cells: A way towards efficient stable and low cost solar cells.	Dr Pankaj Yadav	DST SERB	36,00,000	3Yrs

Improving the stability of Peorvskite solar cells more than 1000 hrs	Dr Pankaj Yadav	DST SURE	49,00,000	3Yrs
Investigation of key factors to efficiency improvement in low cost Kesterite (CZTS) thin-film solar cells	Dr. Abhijit Ray	DRDO	35,00,000	5Yrs
Development of CZTS Solar Cells & Modules on Glass and Metallic Substrates by Non-vacuum Processes	Dr. Abhijit Ray	MNRE	80,00,000	5Yrs
Development of Metallic Nanowire Transparent Conducting Electrodes on Glass and Flexible Substrates	Dr. Abhijit Ray	DST-CERI	59,00,000	5Yrs
Development of novel two dimensional materials and their nano carbon composites as efficient photo- and electro-catalysts for hydrogen generation from water	Dr. Abhijit Ray	DST-CRG	38,00,000	2Yrs