

Projects Supported under DST- SERI Programme(2014-2015)

Sl. No	File No	Title	PI Name & Institution Address	Duration (Months)	Total Cost (Rs.)
1	DST/ TM/SERI/2k12/72	Synthesis and Characterization of Iron Chalcogenide, FeS ₂ (Pyrite) and Fe ₂ Si ₄ Thin-Films for Photovoltaic Application	Dr. Sarang Ingole, Assistant Professor, Department of Materials Science and Engineering, Western Labs Buildings, Lab # 204, Indian Institute of Technology Kanpur, Kanpur-208016, U.P.	36	4934000
2.	DST/ TM/SERI/2k12/39	Molecular Engineering of New Hybrid Organic-Inorganic Sensitizers for Applications in dye Sensitized solar cells	Dr. P Raghavendra Kumar, Assistant Professor in Chemistry, Centre for Nanoscience Research (CNR), Tumkur University, B.H.Road, Tumkur-572103, Karnataka Dr. Vamsi Krishna Komarala, Assistant Professor, Indian Institute of Technology Delhi, New Delhi – 110030	36	5150000 1298000
3.	DST/ TM/SERI/2k12/71	Surface modified GaN/InGaNheterostructures with AlGaIn barrier layers for photovoltaics application	Dr. K. Baskar, Director & Professor, Crystal Growth Centre, Anna University, Chennai-600025	36	6551800
4.	DST/ TM/SERI/2k12/34	Realization of novel low-cost, high optical absorption nanostructured design for photovoltaics solar cell device	Dr. RanuNayak, Assistant Professor, Amity Inst of Nanotechnology, Amity University, Sector-125, Noida -201301, U.P.	36	1540000
5.	DST/ TM/SERI/2k12/68	Fabrication of high performance quantum dot-sensitized solar cells through synthesis of high quality colloidal quantum dots	Prof. A. SreekumaranNair, Assistant Professor, Amrita Centre for Nanoscience & Molecular Medicine, Amrita Institute of Medical Sciences, Amrita Viswa Vidya Peetham, AiMSPonekkara PO Kochi – 682041, Kerala	24	2248000

6.	DST/ TM/SERI/2k12/63	Development and Application of Atomic Layer Deposition for High Efficiency c-Si Photovoltaic Solar cells	Dr. B R Singh, Professor, Division of Electronics and Microelectronics, Indian Institute of Information Technology, Deoghat, Jhalwa, Allahabad-211012	36	21662000
7.	DST/ TM/SERI/2k12/74	Simultaneous power and cooling production using solar operated absorption refrigeration system for cold storage applications	Dr. R Saravanan, Professor, Institute of Energy Studies, Anna University, Chennai-600025	36	5022000
8.	DST/ TM/SERI/2k12/60	Efficiency enhancement of Scheffler dish solar concentrating technology	Dr. V Siva Reddy, Principal Scientist, Sardar Patel Renewable Energy Research Institute (SPRERI), Near BVM Engineering College, VallabhVidhyanagar, Anand (DIT), Gujarat-388120	36	7995200
9.	DST/ TM/SERI/2k12/70	Design and Development of a Smart Micro Grid with Optimal Solar/Grid Power synergy	Prof. D. Bhagwan Das, Department of Electrical Engineering, Faculty of Engineering, Dayalbagh Educational Institute, Dayalbagh, Agra-282110 Uttar Pradesh	36	5849400
10.	DST/ TM/SERI/2k12/59	Development of Thermal Storage System using phase Change Material for ORC based Solar Thermal Plant	Dr. Sandip Kumar Saha, Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076,	36	5314200
11.	DST/ TM/SERI/2k12/40	Fabrication of Solid State Dye Sensitized Solar Cells for Stability Enhancement and Improvement Performance	Prof. P. Ramaswamy, Dean (Research), SSN College of Engineering, Kalavakkam, Chennai-603110	36	5338000
12.	DST/ TM/SERI/2k12/15	Cost-effective thin-film polycrystalline-silicon solar modules	Dr. Somenath Chatterjee, Associate Professor, International Centre for Nano Technology and Applied Adhesion (ICNTAA), Sikkim Manipal	36	5998434

			Institute of Technology (SMIT), Majitar, East Sikkim, Sikkim-737136		
13	DST/ TM/SERI/2k12/57	Electrochemical Deposition of CZTS for solar Cell Applications	Dr. S. Noyel Victoria, Assistant Professor, Department of Chemical Engineering, National Institute of Technology Karnataka, Surathkal, Srinivasanagar, Mangalore-575025.	36	2744650
14.	DST/ TM/SERI/2k12/38	Experimental study on solar steam generation system with compressed water thermal energy storage system	Dr. K. KalidasaMurugavel Professor and Head, National Engineering College, K.R.NagarKovilpatti, Tuticorin District, Tamil Nadu-628503	24	2549500
15.	DST/ TM/SERI/2k12/26	Development and Implementation of MPPT Algorithm for Solar Photovoltaic System under Uniform and Non-Uniform Shaded Conditions	Dr. D. Devaraj, Dean Planning and Development, Kalasalingam University, Anandnagar, Krishnankoil, Srivilliputhur, Virudhunagar-626126 Tamil Nadu	24	659000
16.	DST/ TM/SERI/2k12/81	Solar Energy based Desiccant Loop Air-conditioning	Dr. L. Ashok Kumar, Associate Professor, PSG College of Technology, Avinashi Road, Peelamedu, Tamil Nadu, Coimbatore-641004	36	2765000
17.	DST/ TM/SERI/2k12/82	A Multi-dimensional smart energy Grids Analysis for Indian Scenario	Prof. S N Singh, Professor, ACES-105, Department of Electrical Engineering, IIT Kanpur-208016, U.P. Dr. Bharat Singh Rajpurohit, Assistant Professor, School of Computing & Electrical Engineering, IIT Mandi, Mandi-175001, H.P	36	13496100
18.	DST/ TM/SERI/2k12/83	Integration and Intelligent management of Renewable Via ICT for Smart Micro-Grid	Dr. Nirod Chandra Sahoo, School of Electrical Sciences ,IIT Bhubaneshwar, Orissa	36	8824000

		Networks	Dr. Sukumar Mishra, Department of Electrical Engineering, IIT Delhi, HauzKhas, New Delhi- 110016		3012000
19.	DST/TM/SERI/2k12/84	Design and Development of a Smart Energy Grid Architecture with Energy Storage	Prof. Rajendra K Pandey, Professor, Department of Electrical Engineering, IIT (Banaras Hindu University), Varanasi- 221005, Dr. Anshu Bharadwaj, Director, Centre for Study of Science, Technology and Policy, (CSTEP) Raja Ramanna Complex, High Grounds, Raj Bhavan circle, Bangalore-560001	36	18574000 2812000
20.	DST/ TM/SERI/2k12/85	Solar Energy Based DC Micro-Grid Power System with Hybrid Battery to power Rural and Remote areas	Prof. A K Shukla, Honorary Professor, Solid State & Structural Chemistry Unit, Indian Institute of Science (IISc), Bangalore – 560012, Karnataka.	24	7848000
21	DST/ TM/SERI/FR/94	Improving Organic Solar Cell performance in large area architecture by use of Active Encapsulation and Aging studies	Prof. K. S. Narayan, Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore- 560064	36	6654800
22	DST/ TM/SERI/2k12/65	Design, Development and Deployment of A low-Temperature Solar Desalination System	Dr. Balakrishnan Shankar, Associate Dean, Amrita Vishwa Vidyapeetham, (Amrita University), Amritapuri, Clappana P.O., Kollam District, Kerala-690525,	24	2570400