

## 2012-2013

Sl. No	File No	Title	PI Name & Institution Address	Duration Months	Total Cost (Rs.)
1	DST/TM/SERI/2K1 1/72	Development of CZTS (Cu <sub>2</sub> ZnSnS <sub>4</sub> ) based solar cell using magnetron sputtering	Dr. S. Mukherjee, Head, FCIPT, IPR, F.C.I.P.T, Institute for Plasma Research, A-10/B, G.I.D.C.Electronics Estate, Sector- 25, Gandhinagar- 382 044	36	2,38,52,400
2	DST/TM/SERI/2K1 1/74	Development of Nanopillar-based Photovoltaic Cells- Process development to deposit thin films of high quality CdTe and CdS	Prof. T. N. Guru Row, Professor, Solid State & Structural Chemistry Unit, Indian Institute of Science, Bangalore-560012, Karnataka	24	34,53,000
3	DST/TM/SERI/2K1 0/67	Development of Textured Transparent Conducting Oxide Thin Films for Solar Cell	Dr. Rajesh Das, Assistant Professor, School of Applied Science, Haldia Institute of Tehnology, Hatiberia, Haldia, Purba Medinipur, West Bengal - 721657	36	86,47,000
4	DST/TM/SERI/2K1 1/76	Development of Textured ZnO thin films for solar cells front contact applications using sputtering technique and the demonstration of its performance in silicon thin film solar cells	Dr. K. Mohanchandran, Vice President – R&D Hind High Vacuum Co. Pvt Ltd, No. 17, Phase 1, Peenya Industrial area,	30	4,48,96,000
5	DST/TM/SERI/2K1 2/12	Fabrication and Characterization of 2D and 3D Metamaterials for Solar Applications	Dr. Shobha Shukla, Assistant Professor, Department of Metallurgical Engg and Materials Science, Indian Institute of Technology – Bombay, Powai, Mumbai-400076	36	2,69,04,600

6	DST/TM/SERI/2K1 1/103	Spectroscopic Studies on Light Harvesting Hybrid Materials and Potential Application in Dye-sensitized Solar Cells	Dr. Samir Kumar Pal, Associate Professor, Department of Chem. Biol. Macro. Sciences, S.N.Bose National Centre for Basic Sciences, Salt Lake, Kolkata 700098	36	49,28,000
7	DST/TM/SERI/2K1 1/88	Development of Solar collector field for a solar thermal power plant (Phase-1)	Dr. T. Sundraranjan, Professor and Head, Department of Mechanical Engineering, Indian Institute of Technology, Madras, Chennai-600036	18	2,99,08,400
8	DST/TM/SERI/2K1 1/101	V-trough concentrator as technology platform – Case study for enhanced output from photovoltaic array powering a community scale reverse osmosis unit	Dr. Subrana Maiti, Scientist, Process Design & Engineering Cell, Central Salt & Marine Chemicals Research Institute, G.B. Marg, Bhavnagar-364021, Gujarat	36	54,38,000
9	DST/TM/SERI/2K1 1/80	Nano-Patterned Conductive Adhesive for Metal-Polymer Inter-Connectors in Solar Cell	Dr. Animangshu Ghatak, Associate Professor, Department of Chemical Engineering, Indian Institute of Technology Kanpur, Uttar Pradesh-208016	24	69,44,000
10	DST/TM/SERI/2K1 2/01	Experimental study of flat plate solar collector using nano-fluids	Dr. G. D. Agrawal, Associate Professor, Department of Mechanical Engineering, Malaviya National Institute of Technology, J.L.N. Marg, Malaviya Nagar, Jaipur-302017	24	11,82,000
11	DST/TM/SERI/2K1 2/16	Development of Solar Tri-generation System for Cooling, Heating and Potable Water	Dr. K.S.Reddy Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai - 600036	36	88,59,000
12	DST/TM/SERI/2K1 1/117	Quantum Cluster Solar Cells	Prof. T. Pradeep, Professor, Department of Chemistry, Indian Institute of Technology Madras, Chennai – 600036	36	1,65,61,000

13	DST/TM/SERI/2K1 2/13	Solar Powered Air Conditioners and Desert Air- Cooler	Prof. Ashok Jhunjhunwala, Professor, Department of Electrical Engineering, Indian Institute of Technology Madras, Chennai – 600036	24	63,39,200
14	DST/TM/SERI/2K1 2/123	Desalination by solar powered nano structured membrane distillation	Dr R Baskaran, Professor & HOD, Department of Chemical Engineering, St. Joseph's college of Engineering, Old mahaballipuram Road, Jeppiaar Nagar, Chennai -	12	5,92,000