

2021-2022

S. No	File No	Title	PI Name & Institution Address	Duration Months	Total Cost (Rs.)
1	DST/TMD/CERI/RES/2020/2 E-31357	Design and Fabrication of Hybrid Solar-LPG based Dryer for Geopolymer Bricks	Dr. Vishnupriyan J, Assistant Professor, Department of Electrical and Electronics Engineering, Chennai Institute of Technology, Kundrathur, Chennai-600069	24	4955368
2	DST/TMD/CERI/RES/2020/20 E-31783	Development of Autonomous Solar PV Panel Cleaning Robot	Dr. Sundaram M, Associate Professor, PSG College of Technology, Peelamedu, Coimbatore-641004, Tamil Nadu	36	8629520
3	DST/TMD/CERI/RES/2020/13 E-31526	Design and Implementation of Novel Grid-Tied Transformer-Less Boosting Inverter Topologies for Solar PV Applications	Dr. Arun Kumar Verma, Assistant Professor, Department of Electrical Engineering, Malviya National Institute of Technology, Jaipur, Rajasthan	36	7884518
4	DST/TMD/CERI/RES/2020/11 E-31521	Development of a table-top equipment for measurement of the lifetime and diffusion length of minority carriers in silicon solar cells	Dr. V. K. Jain, Director, Amity Institute for Advanced Research & Studies (Materials and Devices) Noida-201303, Uttar Pradesh	36	6193360
5	DST/TMD/CERI/RES/2020/29 E-32085	Development of Affordable Dust Cleaning System with High Operational Flexibility for Mega Solar Power Projects	Dr. S.S. Mallick, Associate Professor, Department of Mechanical Engineering, Thapar Institute of Engineering & Technology, Patiala, Punjab	24	4758585
6	DST/TMD/CERI/RES/2020/15 E-31530	Design and Development of Cost-Effective Floating-Solar Energy Generation Technologies and Infrastructure for Achieving Nearly Zero-Energy Villages	Dr. Srinivas BhaskarKaranki, Assistant Professor, School of Electrical Sciences, IIT Bhubaneswar, Jatni, Odisha	36	14604840

7	DST/TMD/CERI/RES/2020/32 E-32088	Design and Development of Solar Photovoltaic Assisted Micro-Grid Architecture with Improved Performance Parameters Intended for Rural Areas	Dr. S. Albert Alexander, Associate Professor, Kongu Engineering College-Erode, Perundurai, Tamil Nadu	24	2865200
8	DST/TMD/CERI/RES/2020/19 E-31730	Indigenous Li-ion Battery Development for Solar Inverters, Solar EV Chargers, and Small Electric Vehicles	Dr. NirmalyaBallav, Associate Professor, Indian Institute of Science Education and Research, Pune, Maharashtra	36	21429520
9	DST/TMD/CERI/RES/2020/10 E-31500	Plug and Play IV curve tester for PV	Dr. SreedharMadichetty, Associate Professor, Mahindra Ecole Centrale 1A, Bahadurpally, Hyderabad, Telangana	30	3945460
10	DST/TMD/CERI/RES/2020/28 E-32084	Development of convertible and a cost-effective mechanism for Smart-flower type solar panels	Dr. SaurabhChandraker, Assistant Professor, National Institute of Technology, Surathkal, Karnataka	24	5137344
11	DST/TMD/CERI/RES/2020/37 E-32127	GQD decorated dye sensitized solar cell for Energy harvesting applications	Dr. Manoj B, Associate Professor, Christ (Deemed to be University), Hosur Road, Bengaluru, Karnataka	36	6150918
12	DST/TMD/CERI/RES/2020/16 E-31531	Development and Testing of Solar Based Air Heating System Integrated with Biomass Furnace for Agro-Industrial Application in Mizoram	Dr. H Lalmingsanga, Assistant Professor, NIT Mizoram, Dawrkawn, Chaltlang, Aizawl-796012, Assam	36	4739710
13	DST/TMD/CERI/RES/2020/8 E-31463	Development of Compact Heat Exchangers for Supercritical Carbondioxide Brayton Power Plants for CSP applications	Prof. Pramod Kumar, Associate Professor, Indian Institute of Science Bangalore, Karnataka	36	29782442
14	DST/TMD/CERI/RES/2020/4 E-31400	Technology for Efficient Power Generation through Floating Solar Photovoltaics at High Latitude Locations	Dr. R Joseph Bensingh, Senior Scientist, Central Institute of Petrochemicals Engineering & Technology, T.V.K. Industrial Estate,	36	50980080

			Guindy, Chennai-600032, Tamil Nadu		
15	DST/TMD/CERI/RES/2020/40 E-32414	Development and performance assessment of solar PV driven active building integrated thermoelectric radiant walls (BITE-RW) for small scale space cooling applications	Dr. AneeshPrabhakar, Assistant Professor, Malaviya National Institute of Technology Jaipur, Rajasthan-302017	36	4665860
16	DST/TMD/CERI/RES/2020/49 E-32424	Scalable Next Generation Perovskite Photovoltaics Using Versatile Integrated Back nano Contacts IBnC Architecture	Dr. Aditya Sadhanala, Assistant Professor, Centre for Nano Science and Engineering CeNSE, Indian Institute of Science Bangalore, C. V. Raman Road Bangalore, Bengaluru Urban-560012, Bangalore, Karnataka.	36	11332525
17	DST/TMD/CERI/RES/2020/43 E-32417	Development of solar powered decentralized fertilizer productioncum-irrigation units	Dr. Pratham Arora, Assistant Professor, Department of Hydro and Renewable Energy, IIT Roorkee, Roorkee-247667, Uttarakhand	36	6826210
18	DST/TMD/CERI/RES/2020/44 E-32418	Photo-Therm Solar Converted Thermal Energy Harvesting Mangrove and Composite Layer Mechanistic Photo-thermal Material in Interfacial Water Evaporator-Collector Desalination System to Potable Water	Dr. Rajib Ghosh Chaudhuri, Assistant Professor, Department of Chemical Engineering, National Institute of Technology Durgapur, Durgapur-713209, West Bengal	36	6635778
19	DST/TMD/CERI/RES/2020/33 E-32089	Design and development of multifunctional grid-tied inverter for solar energy integration to grid with power quality enhancement features	Dr. Jiwanjot Singh, Assistant Professor, National Institute of Technology, Silchar, Assam	24	4287600
20	DST/TMD/CERI/RES/2020/34 E-32090	Indigenous Development of a novel low-cost Solar PV panel selfcleaning device	Dr. VenugopalArumuru, Assistant Professor, School of Mechanical Sciences, IIT Bhubaneswar, Odisha-752050	24	4259520

21	DST/TMD/CERI/RES/2020/41 E-32415	Stimuli Responsive Artificial Leaves for Selective Solar Fuel Production	Dr. Shamik Chowdhury, Assistant Professor, School of Environmental Science and Engineering, Indian Institute of Technology Kharagpur, West Bengal-721302	36	2946006
22	DST/TMD/CERI/RES/2020/6 E-31409	Design, Development, and Demonstration of Solar-PV integrated On-board and Off-board Electric-Rickshaw Charging Infrastructure	Dr. VivekNandan Lal, Associate Professor, Department of Electrical Engineering, IIT(BHU) Varanasi, Uttar Pradesh	36	23360890
23	DST/TMD/CERI/RES/2020/30 E-32086	Saur Stambh – A Smart Solar High Mast Light With Long Range, Low Power, Wireless Wide Area Network For Agri-lot Applications	Mr. Amit Raje, Managing Director & CTO, AARTECH Solonics Limited, E-2/57Area Colony, Bhopal, Madhya Pradesh-462016	24	4793120
24	DST/TMD/CERI/RES/2020/38 E-32412	Concentrated Solar Air Heater with Passive Tracking Mechanism and Corrugated Receiver	Dr. Tangellapalli Srinivas, Associate Professor, National Institute of Technology Jalandhar, Punjab	24	1842141
25	DST/TMD/CERI/RES/2020/31 E-32087	Development of nanosilica based antireflective dust repellent coating for solar panel top glass and its performance evaluation on rooftop installation	Dr. Abhilasha Mishra, Assistant Professor, Graphic Era University, Dehradun, Uttarakhand	24	5449540
26	DST/TMD/CERI/RES/2020/52 E-32427	Development of chemically modified carbon based interfacial solar evaporator	Dr. Sudip Kumar Batabyal, Senior Research Scientist, Amrita Vishwa Vidyapeetham, Coimbatore, Tamil Nadu	36	3350240
27	DST/TMD/CERI/RES/2020/46 E-32421	Development of Antireflective and Self Cleaning Coatings on Solar Cover Glass with Enhanced Power Output for Silicon based Solar Panels and Devices	Dr. Sunirmal Janna, Sr. Principal Scientist, Central Glass And Ceramic Research Institute, Kolkata, West Bengal	36	8811280
28	DST/TMD/CERI/RES/2020/47	Development of Dye-sensitized solar cell-	Dr. Habib M. Pathan, Assistant Professor,	36	5829408

	E-32422	based system for indoor applications and internet of things	Department of Physics, SavitribaiPhule Pune University, Ganeshkhind, Pune – 411007, Maharashtra		
29	DST/TMD/CERI/RES/2020/39 E-32413	High Frequency Planar Magnetics for Renewable Energy System and Electric Vehicle Battery Charging	Dr. Ritesh Kumar Keshri, Assistant Professor, Visvesvaraya National Institute of Technology, Maharashtra	36	6642518
30	DST/TMD/CERI/RES/2020/36 E-32092	All solar powered cold storage unit based on pumpable ice slurry technology	Prof. Shankar Krishnan, Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology Bombay, Maharashtra	24	3940013
31	DST/TMD/CERI/RES/2020/50 E-32425	Design and development of flexible large area 156x156 mm ² modified perovskite mini modules	Dr. Rajiv Kumar Singh, Senior Scientist, Advanced Materials & Devices Metrology, National Physical Laboratory, Delhi	36	9882960
32	DST/TMD/CERI/RES/2020/35 E-32091	A 10 kW Pilot PV Plant Based on Single Axis Solar Tracking System Using Second Lever Principle	Dr. Sishaj P Simon, Associate Professor, National Institute of Technology, Tiruchirappalli, Tamil Nadu	24	4230626
33	DST/TMD/CERI/RES/2020/48 E-32423	Fabrication of 20 efficient doping free carrier selective contact silicon heterojunction solar cells	Prof. Vamsi Krishna Komarala, Professor, Centre for Energy Studies, Indian Institute of Technology Delhi, HauzKhas, Delhi	36	6858000
34	DST/TMD/CERI/RES/2020/45 E-32420	Development of a solar-thermal-steam based sterilization system for dental tool sterilizations in remote areas	Dr. SathyanSubbiah, Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai, Tamil Nadu	24	6326770
35	DST/TMD/CERI/RES/2020/14	Demonstration and Deployment of	Dr. B Premachandran,	36	73024500

	E-31529	community level integrated autonomous solar energy system for space heating, drying and cooking purposes in LADAKH region – SUNSHINE LADAKH	Professor, Department of Mechanical Engineering, Indian Institute of Technology Delhi, HauzKhas, Delhi		
36	DST/TMD/CERI/RES/2020/22 E-31998	Development of Compact and Efficient Grid Tied Solar Powered Inverter (SPI) Systems	Dr. SumanaChowdhuri, Professor, Department of Applied Physics, University of Calcutta, West Bengal	36	12881808
37	DST/TMD/CERI/RES/2020/51 E-32426	Improving the Stability of Perovskite Solar Cells >1000 Hrs	Dr. Manoj Kumar Pandey, Associate Professor, Department of Science School of Technology, PanditDeendayal Petroleum University, Gandhinagar, Gujarat	36	4261796
38	DST/TMD/CERI/RES/2020/23 E-31999	Going Remote - Solar Energy for Lighting and Hygienic Sanitation with Smart Exhaust System for Rural Applications	Prof. Konika Das Bhattacharya, Professor, Indian Institute of Engineering Science and Technology Shibpur, West Bengal	36	14333470
39	DST/TMD/CERI/RES/2020/42 E-32416	E- mode GaN HEMT based single phase solar inverter with smart gate driver	Dr. Sandeep Anand, Associate Professor, Department of Electrical Engineering, IIT Bombay, Maharashtra	36	8452858