

S. No.	Project Title	PI Name	Department	Funding Agency
1	Synthesis and environmental degradation study of aluminum-chromium-copper-manganese-iron-tungsten based high entropy alloy for high temperature application	Dr. Vinod Kumar	Meta.&Matt. Engineering	BRNS
2	Investigation of heat-transfer characteristic on nano-fluid in sub-cooled flow boiling	Dr. R K Duchaniya	Meta.&Matt. Engineering	BRNS
3	CDOS stone research chair	Dr. Ravindra Nagar	Civil Engineering	Center For Development of Sotne
4	Development of field test kit for detection of total coliform and E-coli in drinking water	Dr. Urmila Brighu	Civil Engineering	Communication and Capacity Development Unit, Water and Sanitation Support Organization, Government of Rajasthan
5	Strategic investigation of organo-catalyzed direct arylation of arenes and hetero-arenes via sp ² C-H bond activation: Application to an efficient synthesis of bioactive heterocycles	Dr. Sandeep Chaudhary	Chemistry	CSIR, New Delhi
6	Security Analysis Framework for Android platform	Dr. M. S. Gaur	Computer Science and Engineering	Department of Electronics and Information Technology (E-Security Division) Deity
7	On-Chip Network Simulation Platform for Reliable, Accurate, and Fast System Co-Design of Embedded and Multicore Systems"	Dr. M. S. Gaur	Computer Science and Engineering	DST- New Delhi , International Division
8	Development of Network Charging Framework for Indian Power Distribution Utilities	Dr. Rohit Bhakar	Electrical Engineering	SERB, DST- New Delhi
9	Block copolymer based nanoporous polymer membranes:Engineering and applications	Dr. Kamalendra Awasthi	Physics	Inspire Faculty- DST, New Delhi
10	High Pressure magnetotransport studies on topological insulator nano-device	Dr. Manoj Kumar	Physics	Inspire Faculty Award-DST,NEW DELHI
11	Development of efficient polymer-fullerene based bulk heterojunction organic solar cell using nanoparticles	Dr. Rahul Singhal	Physics	Inspire Faculty Award-DST,NEW DELHI
12	New Architectures of elliptical air hole PCF for ultra low dispersion	Dr. Ritu Sharma	ECE	DST, Rajasthan
13	Urdu Corpus Development and Handwritten Text Recognition	Dr. Neeta Nain	Computer Science and Engineering	DST, Rajasthan
14	New Perspectives to Advance Green Medicinal Chemistry	Dr. Raj Kumar Joshi	Chemistry	DST, Indo-South Africa
15	Path and Spectrum Aware Routing Protocol for Multi- channel Multi - radio Cognitive Wireless Mesh Networks	Mr.Ramesh Babu Battula	Computer Science and Engineering	TSG-DST, New Delhi
16	De-fluoridation of Drinking Water using Combination of Magnesium and Calcium amended Alumina	Dr. Suja George	Chemical Engineering	DST, Rajasthan
17	Experimental and Modelling studies for Process Parameters Optimization of Nutrient Mist Reactor for Sustained Production of Hairy Roots	Dr. Manish Vashishtha	Chemical Engineering	DST, Rajasthan
18	Strengthening of Research and Teaching Facilities in the Department (FIST)	Dr. Mahesh K. Jat	Civil Engineering	FST(SERC)-DST, New Delhi
19	Exploring Nitrogen - Based Heterocycles from Bench-side to Bed-side Synthesis, Chemistry, Stereo- Chemical Assignment,Structure -Activity Relationship Studies and Biological Evaluation	Dr. Sandeep Chaudhary	Chemistry	RFBR ,DST- New Delhi
20	Development of Novel Artificial Naked Eye Fluoride ion Receptors	Dr. Ragini Gupta	Chemistry	DST,WTI

21	Hydrodynamic cavitation as an intensifying tool for the treatment of petroleum crude and wastewater	Dr. Virendra Kuamr Saharan	Chemical Engineering	INSPIRE Faculty Award, DST, GOI
22	Treatment of Textile Wastewater using modified sand as a low cost adsorbent	Dr. Urmila Brighu	Civil Engineering	Rajasthan State Pollution Control Board (RSPCB)
23	Setting up Energy Resource Centre	Prof. Jyotirmay Mathur	Centre for Energy & Environment	Rajasthan Renewable Energy Corporation Ltd.
24	Study of urban heat island of Indian cities and development of ANN model for scientific planning to control urban heat island effect	Dr. Sumit Khandelwal	Civil Engineering	SERB, DST, New Delhi
25	Exploring non-opioid analgesics from bench-side to bed-side: An efficient cost-effective asymmetric synthesis and SAR study of new non-opioid anti-pain lead compound, conolidine"	Dr. Sandeep Chaudhary	Chemistry	DST, SERB, New Delhi
26	Tuning the structural, optical and electrical properties of Au nanocrystals embedded in dielectric oxide layers for nonvolatile memory applications	Dr. Srinivasa Rao Nelamarri	Physics	DST, SERB, New Delhi
27	X-ray absorption spectroscopy and high pressure magneto-transport studies of Bismuth chalcogenide based topological insulators	Dr. Manoj Kumar	Physics	UGC DAE
28	Functionalization of nanochannels in track etched polymeric membranes for gas separation/sensing	Dr. Kamalendra Awasthi	Physics	Inter University Accelerator Centre, New Delhi, (IUAC)
29	Indo-US, India Joint Center for Building Energy Research and Development	Prof. Jyotirmay Mathur	Centre for Energy & Environment	US-India Science and Technology Forum and U.S. Dept. of Energy
30	Indigenous design and development of prototype base isolation systems for earthquake hazard mitigation	Dr. S. D. Bharti	Civil Engineering	DST, New Delhi
31	Design and Simulation of Cantilever-type MEMS based Piezoelectric Energy Harvester	Dr. Ritu Sharma	ECE	Indus Institute of technology and Management
32	Laser Driven Particle Acceleration	Dr. Ashok Kumar	Physics	SERB, DST, New Delhi
33	Rural Women Empowerment and Sustainable Growth	Dr. Monica Sharma	Management Studies	DST, SSTP Programme Rajasthan
34	Exploring Antimalarial Peroxides from Bench-side to Bed-side: Synthesis, Chemistry, Antimalarial Assessment and SAR Studies of novel functionalized 1, 2, 4-Trioxanes and 1, 2, 4, 5-Tetraoxanes against Multi-Drug Resistant Malaria	Dr. Sandeep Chaudhary	Chemistry	DST (International Division), New Delhi
35	Design and Study of Potential Metallocene Catalysts for General And Selective Organic Reactions	Dr. Raj Kumar Joshi	Chemistry	DST (International Division), New Delhi, RFBR
36	Ramalingaswami Re-Entry Fellowship	Dr. Vivekanand	Centre for Energy & Environment	DBT-DST, Govt. of India
37	Award of Renewable Energy chair under HRD Scheme of the Ministry	Prof. Jyotirmay Mathur	Centre for Energy & Environment	Ministry of New And Renewable Energy, New Delhi
38	Modeling and characterization of Lithium Niobate (LiNbO3) based optical devices using surface geometric techniques for their applications in Integrated Optical Circuits (IOCs)	Dr. Ghanshyam Singh	ECE	DST, New Delhi
39	Sustainability Evaluation of Urban Environment Quality and Development of upcoming Megacities of India	Dr. Rohit Goyal , DR. Ankita Pran Dadhich	Civil Engineering	DST, New Delhi
40	Information Security Education & Awareness Phase -II (Resource Centre)	Dr. M. S. Gaur	Computer Science and Engineering	DeitY
41	High performance hyper-branched nitrogen/phosphorous doped photoluminescent carbon quantum dots for imaging and sensing applications	Dr. Sumit Kumar Sonkar	Chemistry	DST, SERB-New Delhi
42	Effect of Mutilated Dentition on Speech of Children	Dr. Nupur Tandon	Humanities & Social Sciences	Indian Council of Medical Research

43	Experimental Investigations of Bond Characteristics of Steel-Concrete Composite Interface Connected by Adhesive Bonding	Dr. Sandeep Chaudhary	Civil Engineering	The Institution of Engineers (India)
44	Design and Development of AlGaN/GaN High Electron Mobility Transistors (HEMTs) for Biosensing Applications	Dr. C. Periasamy	ECE	SERB, DST, New Delhi
45	Efficiency Enhancement in thin film GaAs Solar Cell using Photonic Crystal as back reflector	Dr. Vijay Janyani	ECE	SERI-DST, New Delhi
46	Self assembled block copolymer nanotemplates for optoelectronics	Ms. Yogita Kumari	Physics	DST, New Delhi
47	High Energy And Power Density (HEAPD) Solutions to Large Energy Deficits	Dr. Rohit Bhakar	Electrical Engineering	DST, New Delhi
48	Design and Development of Nanostructured ZnO Film Based Piezoelectric Devices for Energy Harvesting Applications	Dr. C. Periasamy	ECE	Indo-Austrian Program(DST-BWMF)
49	Synthesis and characterization of CZTS based thin films by low cost CBD method for solar cell application	Indu B. Vashista	Physics	DST, New Delhi
50	Designing and Systematic Study of New Two Dimensional Mxenes for Electrochemical Energy Storage Applications	Dr.Sumant Kumar Meher	Chemistry	DST,(SERB),
51	Economic production of iron through direct reductin of mill scale by low grade coal of Rajshthan	Prof. M. K.Banerjee	Meta.&Matt. Engineering	Ministry of Steel , GOI
52	Durability studies on geopolymer concrete containing waste rubber fiber as partial replacemnt of sand	Ms. Salmabanu Ismilbhai Luhar & Dr. Sandeep Chaudhary	Civil Engineering	DST, New Delhi
53	Transition metal complexes of functionalized N-heterocyclic carbene based pincer ligands for catalysis of organic transformations	Dr. Kamal Nayan Sharma & Dr. Rajkumar Joshi	Chemistry	SERB- DST, New Delhi
54	Manufacturing of Bricks by using waste plastic material along with marble slurry and additives.	Dr. Sushant Upadhyaya	Chemistry	Blessing Redefine - 70 shivraj nicketan vaishali nagar jaipur
55	Special Manpower Development Programme for Chips to System Design (SMDP-C2SD)	Dr. D. Boolchandani	ECE	DeitY
56	Development of Ceramic Armour Panels to STANAG 4569 Level-4 for Futuristic Combat Vehicle	Dr. S.K. Biswas	Meta.&Matt. Engineering	ODC - OFMK
57	Utilization of Plastic Waste in Concrete: Feasibility Studies	Dr. Sandeep Chaudhary	Civil Engineering	DST, New Delhi
58	Development of Ti-Al-N based coating on Al-alloy for application in hydroturbine blades	Dr. Amar Patnaik	Mechanical Engineering	CSIR, New Delhi
59	An Empirical Investigation of Ergonomic Interventions in Handicraft industry in Rajasthan with a special reference to Gems and Jewellery industry.	Dr. Awadesh Bhardwaj	Mechanical Engineering	DST,NEW DELHI
60	Thermoelectric Properties of Mg ₂ (Si;Sn) and SiSn alloy with Trivalent and Pentavalent Doping	Dr. M.K. Banerjee	Meta.&Matt. Engineering	DST, New Delhi (MOST)
61	Strategic Investigation of Novel Pincer- based Metal -catalyzed sp ² and sp ³ C-H bond Activation Reactions: Application towards the Syntesis of Novel Bio-heterocycles	Dr. Jaggi Lal , Dr. Sandeep Chaudhary	Chemistry	SERB, (N PDF) New Delhi

62	Performance Enhancement and Reliable Operation of Wind-PV Distribution System Supplying AC/DC Loads with Remote Condition Monitoring	Dr. Vijayakumar K	Electrical Engineering	DST SERB (Fast Track)
63	Design And Development Of Solar Assisted Rapid Milk Cooler	Dr. Dilip Sharma	Mechanical Engineering	DST, New Delhi
64	Development of Marble dust filled Reinforced Polymer Composite for Wind Turbine Blade	Dr. Amar Patnaik	Mechanical Engineering	DST, New Delhi
65	Synthesis of hetero- substituted amino acids via C(sp ³)-H functionalization and its applications	Dr. Yogesh Kumar , Dr. Sandeep Chaudhary	Chemistry	DST, New Delhi
66	Condition Monitoring and Efficient Usage of Wind Farms using Advanced Prediction Models	Dr. Kusum Verma	Electrical Engineering	DST, Rajasthan
67	Vernacular Practices as a basis for formulation of building regulations for different climatic zones of Rajasthan	Dr. Ashwani Kumar	Architecture & Planning	DST, Rajasthan
68	Design and Implementation of The Learning Activities in Hindi for School Education for Rural Development	Dr. Namita Mittal	Computer Science and Engineering	DST, Rajasthan
69	Theoretical Investigation of the Effect of Environment Fluctuation on Vibrational Energy Relaxation of Complex Molecules	Dr. Pradeep Kumar	Chemistry	SERB-DST - NEW Delhi, India
70	Role of Ammonia in the Chemistry of Oxygenated Volatile Organic Compounds: A Combined IR spectroscopic and Quantum Chemical Investigation	Dr. Biman Bandyopadhyay	Chemistry	SERB-DST, New Delhi
71	Multi- Colored Emissive Fluorescent Graphitic Carbon Nano-Rods for Sensing And Photocatalytic Applications	Dr. Sumit Kumar Sonkar	Chemistry	CSIR-New Delhi
72	Reflection Aware ICC Analysis Framework for Android Apps	Dr. M. S. Gaur	Computer Science and Engineering	CEFIPRA
73	Quenching Behavior of Bottom Flooded molten pool	Dr. R K Duchaniya	Meta.&Matt. Engineering	Department of Atomic Energy (DAE) BRNS
74	Design, Fabrication and Characterization of Piezoelectric Nanogenerator Based on ZnO Nanostructures for Energy Harvesting Applications	Dr. C. Periasamy	ECE	SERB, DST, New Delhi
75	Modeling and implementation of free space optical transceiver for next generation optical communication applications	Dr. Vijay Janyani	ECE	DST, New Delhi
76	Designing Sugar-Fused Glycosidase Inhibitors Using Glycal Template	Dr. Sudhir Kashyap	Chemistry	DST, New Delhi
77	IoT Enabled Waste Management System for Smart City	Dr. M.C. Govil	Computer Science and Engineering	DST, Rajasthan
78	Green Process: Development of Green Catalyst for the Synthesis of Glycerol Carbonate from Waste Glycerol	Dr. Subbaramaiah V	Chemical Engineering	SERB-DST, New Delhi
79	Low energy ion irradiation studies of metal - fullerene nanocomposite	Dr. Rahul singhal	Physics	IUAC - UGC
80	Effect of microstructure on shock behaviour of SiC ceramics for armor application	Dr. S.K. Biswas	Meta.&Matt. Engineering	DRDO
81	Investigation of Data Leakage Prevention Techniques for Android Platform	Dr. Vijay Laxmi	Computer Science and Engineering	DAAD, DST New Delhi
82	Development of Flexible supercapacitors for flexible and wearable electronics	Dr. Kapil Pareek	Centre for Energy & Environment	SERB-DST, Govt. Of India

83	Utilization of Marble Slurry Powder for production of Hydroxyapatite (HAP) suitable for defluoridation of Drinking water	Dr. Suja George	Chemical Engineering	Rajasthan State Pollution Control Board
84	Impact of Climate Change on Water Resources of Tapi Basin	Dr. Rohit Goyal	Civil Engineering	Ministry of Water Resources, RD & GR , GOI
85	Diversity Oriented synthesis (DOS) approach to sugar - based therapeutics	Dr. Sudhir Kashyap	Chemistry	SERB- DST, New Delhi
86	Climate Change Impact Studies for Rajasthan (Area of Inland Drainage and Mahi basin)	Dr. Mahehnder Choudhary	Civil Engineering	Ministry of Water Resources, RD & GR , GOI
87	Development of innovative Indigenous knowledge system (IKS)-based new cosmetic raw material: Isolation, extraction and chemical profiling of melanin biosynthesis pathways-based natural compounds from Indian and South-African medicinal plants.	Dr. Sandeep Chaudhary	Chemistry	DST- New Delhi , International Bilateral Cooperation Division
88	Novel synthesis and formability of ultrafine grained Ti-46Al-1B (at%) alloy.	Dr. Vijay Navaratna Nadakuduru	Meta.&Matt. Engineering	DST, Govt. Of India
89	High-pressure Studies on Magnetically Doped Topological Insulators and Topological Superconductors	Dr. Manoj Kumar	Physics	SERB-DST, New Delhi
90	Improvement in Sensitivity and Specificity of ColiPAT kit (a low-cost field test kit for detection of Coliforms in drinking water)	Dr. Urmila Brighu	Civil Engineering	CCDU, Rajasthan
91	Organometallic - Photosensitizers Bearing Hybrid N- Heterocyclic Carbene Ligands	Dr. Abbas Raja Naziruddin	Chemistry	SERB-DST, New Delhi
92	Nanostructure Carbon Nano Tube (CNT) based light weight Composite structures for applications in spacecraft structures	Dr. Dinesh Kumar	Mechanical Engineering	ISRO,Ahmedabad
93	Waste Utilization in Concrete as Aggregate: Asian Perspective	Dr. Sandeep Chaudhary	Civil Engineering	Asian Concrete Federation
94	IEQ standard implementation methodology	Prof. Jyotirmay Mathur	Centre for Energy & Environment	Indian Society of Heating , Refrigerating and Air Conditioning Engineers (ISHRAE)
95	Development Of De-Fluoridation Kit For Domestic Drinking Water	Dr. Madhu Agarwal	Chemical Engineering	DST, Govt. of India
96	Development and Performance Analysis of Double Pane Semi- Transparent Solar Photovoltaic Window/Façade System	Dr. Sanjay Mathur	CEE	DST, Govt. of India
97	Installation of a pilot plant of 10 KLD comprising ZnO-Graphene based sensitive catalytic filter for the treatment of effluent of CETP, Jodhpur as a replacement of their secondary treatment unit and development of an alternative low cost treatment with ac	Dr. Urmila Brighu	Civil Engineering	DST, Govt. of India
98	Self-assembled core shell ZnO nanostructure for hydrogen sensing application	Dr. Kamalendra Awasthi	Physics	DST, Govt. of India
99	Coupled pretreatment strategy to overcome the recalcitrant lignocellulosic biomass for improved biogas production	Dr. Vivekanand	CEE	DST, Govt. of India
100	Investigations on Various Unidirectional/Bi-directional Electric Vehicle (EV) Charging/Discharging Topologies for Smart and Green Electric Transportation	Dr. Arun Kumar Verma	Electrical Engineering	SERB-DST, New Delhi
101	Synthesis and Characterization of Solvent Impregnated Resins for the Treatment of Simulated Textile Dye using Ultrasonic Technology	Dr. Dipaloy Datta	Chemical Engineering	SERB-DST, New Delhi