

Department-wise Sponsored Research Projects Undertaken During FY 2018-19

(Excluding Grand Challenge Projects, awards, projects with faculty involvement as supervising PI etc.)

Note : Project Data as on 5-4-2019. Main project and its sub projects with same PI are considered as single project and with different PIs are considered as different projects.

S. No.	Project No.	Title	Sponsoring Agency	Sanctioned Funds (Rs. Lacs)	Start Date	Scheduled Completion Date	PI/ Department	Project Department
Dept. of Applied Mechanics								
1.	RP03612G	Computationally Efficient Modeling of Magnetostrictive Materials with Application to Vibration Energy Harvesting	Science and Engineering Research Board (SERB), DST India	45.49	03-10-2018	02-10-2021	Sushma Santapuri Dept. of Applied Mechanics	Dept. of Applied Mechanics
2.	RP03647G	Higher overall stiffness of triangular shaped ductile/brittle lattice composite structure compared to square and hexagonal shaped structure	Science and Engineering Research Board (SERB), DST India	41.20	01-01-2019	28-02-2021	Gaurav Singh Dept. of Applied Mechanics	Dept. of Applied Mechanics
3.	RP03554G	"Continues noninvasive Blood Pressure Waveform Measuring Device for cardiovascular Health".	Biotechnology Industry Research Assistance Council (BIRAC) India	34.58	23-05-2018	22-11-2019	Sitikantha Roy Dept. of Applied Mechanics	Dept. of Applied Mechanics
4.	RP03663G	Development of a Portable and Non-contact type Intra-ocular Pressure Measurement Device	Department of Science & Technology (DST) India	15.74	11-02-2019	10-02-2021	Sriram Hegde Dept. of Applied Mechanics	Dept. of Applied Mechanics
5.	RP03613G	Numerical simulations of flow over high-lift devices and associated airframe noise	Science & Engineering Research Board, DST India	15.09	10-10-2018	09-10-2021	Arjun Sharma Dept. of Applied Mechanics	Dept. of Applied Mechanics

6.	RP03548G	Modelling and design of BiTe Alloy based nanostructured materials	Solid State Physics Laboratory, DRDO India	9.48	21-05-2018	20-05-2019	Sushma Santapuri Dept. of Applied Mechanics	Dept. of Applied Mechanics
7.	RP03593G	Crack growth direction in amorphous silica under extreme temperature using molecular mechanics	Deptt. of Space, ISRO India	6.73	01-01-2019	29-02-2020	Gaurav Singh Dept. of Applied Mechanics	Dept. of Applied Mechanics
Dept. of Biochemical Engineering & Biotechnology								
8.	RP03600G	DOSA - Diagnostics for One Health and User Driven Solutions for AMR	Department of Biotechnology, Ministry of Science & Technology India	192.19	04-09-2018	03-09-2021	Ravi Krishnan Elangovan Dept. of Biochemical Engineering & Biotechnology	Dept. of Biochemical Engineering & Biotechnology
9.	RP03532N	Biotechnology for the recovery of germanium, indium and copper from industrial copper dust waste (Bio-CuInGe)	Indo German Science and Technology Centre (IGSTC) <u>Collaboarting Institutes</u> Helmholtz Zentrum Dresden Rossendorf, Germany GEOS Ingenieurgesellschaft mbH, Halsbrucke, Germany Laksmi Life Sciences Coimbatore, India	161.00	18-04-2018	17-04-2021	Shaikh Ziauddin Ahammad Dept. of Biochemical Engineering & Biotechnology	Dept. of Biochemical Engineering & Biotechnology
10.	RP03711G	Development of metagenomics assisted surveillance tools for tracking antibiotic resistance in river bodies (Nanolog)	Department of Biotechnology, Ministry of Science & Technology India	79.31	16-03-2019	15-03-2022	Shaikh Ziauddin Ahammad Dept. of Biochemical Engineering & Biotechnology	Dept. of Biochemical Engineering & Biotechnology

11.	RP03651G	Does AMR in livestock contribute to AMR in people in NE India - An interdisciplinary study	Department of Biotechnology India	62.43	20-11-2018	19-11-2021	Shaikh Ziauddin Ahammad Dept. of Biochemical Engineering & Biotechnology	Dept. of Biochemical Engineering & Biotechnology
12.	RP03578G	Study on the changes in microbial community structure and function in organic farming vs. conventional farming	Department of Biotechnology India	49.67	30-07-2018	29-07-2021	Shilpi Sharma Dept. of Biochemical Engineering & Biotechnology	Dept. of Biochemical Engineering & Biotechnology
13.	RP03679G	Synthetic microbial community as a novel approach to combat biotic stress in pigeon pea	Department of Science & Technology India	32.82	26-03-2019	25-03-2022	Shilpi Sharma Dept. of Biochemical Engineering & Biotechnology	Dept. of Biochemical Engineering & Biotechnology
14.	RP03692G	Engineered Bioremediation Approaches for Onsite treatment of soil contaminated with crude oil	Department of Biotechnology, Ministry of Science & Technology India	29.56	19-03-2019	18-03-2022	Preeti Srivastava Dept. of Biochemical Engineering & Biotechnology	Dept. of Biochemical Engineering & Biotechnology
15.	RP03642G	Molecular events responsible for the switching of cell shape with respect to cell cycle in Rhodococcus erythropolis PR4	Department of Science & Technology India	19.20	24-12-2018	23-12-2021	Preeti Srivastava Dept. of Biochemical Engineering & Biotechnology	Dept. of Biochemical Engineering & Biotechnology
Dept. of Chemical Engineering								
16.	RP03726G	Point-of-Care (POC) devices for bedside diagnosis of bacteremia and neonatal sepsis	Science and Engineering Research Board (SERB), DST India	99.66	11-03-2019	10-03-2022	Shalini Gupta Dept. of Chemical Engineering	Dept. of Chemical Engineering
17.	RP03668G	Bimetallic nanocatalysts supported on porous carbon for production of biofuels and value-added chemicals through hydrodeoxygenation process	Ministry of Human Resource & Development India	59.66	25-02-2019	24-02-2021	Sreedevi Upadhyayula Dept. of Chemical Engineering	Dept. of Chemical Engineering

18.	RP03627N	Mixing in a Basic Oxygen Furnace (BOF) under Combined Blowing Conditions: Cold Flow Measurements and Development of CFD Model	Tata Steel Ltd. India	46.41	19-11-2018	18-11-2020	Vivek Vitthal Buwa Dept. of Chemical Engineering	Dept. of Chemical Engineering
19.	RP03603G	Rapid and Simultaneous Stage-Controlled Intercalation and Exfoliation of Graphite	Science and Engineering Research Board (SERB), DST India	46.34	25-09-2018	24-09-2021	Anupam Shukla Dept. of Chemical Engineering	Dept. of Chemical Engineering
20.	RP03559G	Multiscale modeling for quantitative prediction of protein aggregation kinetics	Science and Engineering Research Board (SERB), DST India	38.19	12-06-2018	11-06-2021	Gaurav Goel Dept. of Chemical Engineering	Dept. of Chemical Engineering
21.	RP03598G	Thermo-catalytic Cracking of Waste Plastic for the Production of Value Added Chemicals	Life Sciences Research Board, DRDO India	33.88	13-09-2018	12-09-2021	Kamal Kishore Pant Dept. of Chemical Engineering	Dept. of Chemical Engineering
22.	RP03702G	Enhancements of Model Predictive Control for Batch/Semi-Batch Processes	Science and Engineering Research Board (SERB), DST India	33.44	25-03-2019	24-03-2022	Hariprasad Kodamana Dept. of Chemical Engineering	Dept. of Chemical Engineering
23.	RP03645G	Development of biomass-derived 2-pyrone as a potential platform molecule for the production of fuels, chemicals, polymers and pharmaceuticals	Board of Research in Nuclear Sciences, DAE India	24.50	27-12-2018	26-12-2021	Mohammad Ali Haider Dept. of Chemical Engineering	Dept. of Chemical Engineering
24.	RP03579G	Modeling of PCS and m-PCS Fiber Spinning to Generate the Design Data for Spinning Machine	DMSRDE, DRDO India	17.41	05-06-2018	04-06-2020	Paresh Pravinchandra Chokshi Dept. of Chemical Engineering	Dept. of Chemical Engineering
25.	RP03669N	An alternative Technology to Produce Biomass Based Food Grade Flavors, Fuels and Value Added Chemicals	SRISTI, Ahmedabad India	15.00	02-01-2019	01-01-2021	Mohammad Ali Haider Dept. of Chemical Engineering	Dept. of Chemical Engineering

Dept. of Chemistry								
26.	RP03621G	Asymmetric Organocatalytic Methods for C-C and C-Heteroatom Bond Formation	Science and Engineering Research Board (SERB), DST India	65.08	23-10-2018	22-10-2021	Ravi P Singh Dept. of Chemistry	Dept. of Chemistry
27.	RP03660G	Design of Two-Dimensional Transition Metal Dichalcogenides (2D-TMDs) and their Applications in Photoelectrocatalysis	Department of Science & Technology India	62.73	02-02-2019	01-02-2022	Ashok Kumar Ganguli Dept. of Chemistry	Dept. of Chemistry
28.	RP03653G	Compounds with (X)Sn=O-LA moieties: Are they isolable? (X = iPr, halogen, OtBu, NMe ₂ , OH; LA = Lewis Acid)	Science and Engineering Research Board (SERB), DST India	62.53	15-01-2019	14-01-2022	S Nagendran Dept. of Chemistry	Dept. of Chemistry
29.	RP03629G	Targeting the age related macular degeneration through nanoformulation of antioxidants.	Department of Biotechnology, Ministry of Science & Technology India	59.08	22-11-2018	21-11-2021	Shashank Deep Dept. of Chemistry	Dept. of Chemistry
30.	RP03630G	Understanding the Effect of Macromolecular Crowding on the Energy Landscape of the Multidomain Protein Adenylate Kinase (AK3L1) from a Single Molecule Perspective: A FCS, FRET and FLIM based Approach	Science and Engineering Research Board (SERB), DST India	53.90	06-11-2018	05-11-2021	Pramit Kumar Chowdhury Dept. of Chemistry	Dept. of Chemistry
31.	RP03544G	Development of Ion Exchange Membrane Coated Electrodes for Removal of Heavy Metals including Radioactive Elements from Aqueous Solutions using Electrochemical Adsorption Technique	DRDO India	41.81	09-05-2018	08-05-2020	Pravin Popinand Ingole Dept. of Chemistry	Dept. of Chemistry
32.	RP03650G	Designer dendrimers as thermal stability amplifiers for IgG1 monoclonal antibody biotherapeutics	Science and Engineering Research Board (SERB), DST India	41.37	11-01-2019	10-01-2022	V Haridas Dept. of Chemistry	Dept. of Chemistry

33.	RP03565G	Development of Molecular Electrocatalysts for Water Oxidation	Science & Engineering Research Board India	37.40	11-07-2018	10-07-2021	Sayantana Paria Dept. of Chemistry	Dept. of Chemistry
34.	RP03566G	Chiral Metal-Organic Frameworks for Sustainable Asymmetric Catalysis	Science and Engineering Research Board (SERB), DST India	37.40	11-07-2018	10-07-2021	Kuntal Manna Dept. of Chemistry	Dept. of Chemistry
35.	RP03527G	Low cost, Flexible crack free Metal Oxide/Conducting polymer Inverse opal structures for Supercapacitors	Department of Science & Technology (DST) India	35.15	12-04-2018	11-04-2021	Pravin Popinand Ingole Dept. of Chemistry	Dept. of Chemistry
36.	RP03560G	Search of new materials showing exotic superconducting and magnetic properties in bulk and mesoscale.	Science and Engineering Research Board (SERB), DST India	14.32	28-06-2018	19-09-2019	Ashok Kumar Ganguli Dept. of Chemistry	Dept. of Chemistry
37.	RP03562G	Flexible Supercapacitors based on conducting polymer coated metal oxide aerogel nanostructures	Through DST <u>Collaborating Institutes</u> : University of Bradford, UK	13.44	09-07-2018	08-07-2020	Pravin Popinand Ingole Dept. of Chemistry	Dept. of Chemistry
38.	RP03644G	Design, Growth and Investigation of New Multi-ferroic Materials	Science and Engineering Research Board (SERB), DST India	10.81	29-09-2018	08-06-2019	Ashok Kumar Ganguli Dept. of Chemistry	Dept. of Chemistry
Dept. of Civil Engineering								
39.	RP03614G	Capacity Building of Academic Institutions : IIT Delhi to Support Remediation Initiatives	Ministry of Environment, Forest & Climate Change, India	700.00	26-09-2018	25-09-2019	Manoj Datta Dept. of Civil Engineering	Dept. of Civil Engineering
40.	RP03531G	Capacity Building of Academic Institutions : IIT Delhi to Support Remediation Initiatives (CBIPMP)	Ministry of Environment, Forest & Climate Change, India	424.80	18-04-2018	17-04-2019	Manoj Datta Dept. of Civil Engineering	Dept. of Civil Engineering
41.	RP03641G	Collecting Particulate Matter in air using filters placed on the top of a moving car	Department of Science & Technology India	88.39	07-12-2018	06-12-2019	Sri Harsha Kota Dept. of Civil Engineering	Dept. of Civil Engineering

42.	MI01771N	Centre of Excellence for Research on Clean Air (CERCA Sub Project))	Alumini IIT Delhi India	88.00	09-06-2018	08-06-2020	Mukesh Khare Dept. of Civil Engineering	Dept. of Civil Engineering
43.	RP03716G	Advanced Technologies for Post-Disasters Reconnaissance, Forensic and Environmental Impact Studies - Geotechnical	Ministry of Human Resource Development India	81.28	15-03-2019	14-03-2021	Prashanth Vangla Dept. of Civil Engineering	Dept. of Civil Engineering
44.	RP03611G	Suddha Vaayu: An Electrical Chamber for Detection and Mitigation of Air Pollution	Department of Science & Technology India	53.33	03-10-2018	02-10-2020	Sri Harsha Kota Dept. of Civil Engineering	Dept. of Civil Engineering
45.	RP03584F	The development of a taxi-based dispatcher-controlled EMS for Low- and Middle-Income Countries	University of Chicago United States	52.58	01-04-2018	31-03-2020	Geetam Tewari Dept. of Civil Engineering	TRIPP
46.	RP03709G	Elucidating composition/structure/property relationships in silicate glasses for fracture- and scratch-resistant applications	Science and Engineering Research Board (SERB), DST India	49.96	07-03-2019	06-03-2022	Anoop Krishnan Naduvath Mana Dept. of Civil Engineering	Dept. of Civil Engineering
47.	RP03705G	Fire Safety in Underground Tunnels	Ministry of Human Resource & Development India	49.86	15-03-2019	14-03-2021	Vasant A Matsagar Dept. of Civil Engineering	Dept. of Civil Engineering
48.	RP03633G	PM10 and PM2.5 Related Health Effects in North-East India: Source Identification and Cohort Analysis	Science and Engineering Research Board (SERB), DST India	27.73	06-12-2018	05-12-2021	Sri Harsha Kota Dept. of Civil Engineering	Dept. of Civil Engineering
49.	RP03634G	Dynamic response of deeply buried hardened structures (DBHS) Caused by Surface/Sub-Surface Explosion	Inst. for Systems Studies And Analysis(ISSA)Delhi India	27.53	06-12-2018	05-01-2020	Tanusree Chakraborty Dept. of Civil Engineering	Dept. of Civil Engineering
50.	RP03569G	Investigating the River Characteristics and Hydrologic Flux Changes across the River Ganga	Centre For Ganga River Basin Management and Studies India	24.80	23-07-2018	22-07-2019	Dhanya C.T. Dept. of Civil Engineering	Dept. of Civil Engineering

51.	RP03685G	Development of Engineered Bamboo Structures Technology for Modular Rural Housing Towards Sustainable Built Environment	Science & Engineering Research Board, DST India	18.25	05-03-2019	04-03-2022	Suresh Bhalla Dept. of Civil Engineering	Dept. of Civil Engineering
52.	RP03626G	Particulate Matter in North-East India- Source identification and Mitigation Strategies	Science and Engineering Research Board (SERB), DST India	12.15	12-11-2018	11-10-2019	Sri Harsha Kota Dept. of Civil Engineering	Dept. of Civil Engineering
53.	RP03625G	Quantification and contribution of paddy stubble burning emissions in Haryana to PM2.5 concentrations on surrounding regions	Haryana State Pollution Control Board India	12.00	26-10-2018	25-10-2019	Sri Harsha Kota Dept. of Civil Engineering	Dept. of Civil Engineering
54.	RP03652N	Laboratory Investigation For Condition Monitoring of RC and Steel Structures Through Wireless Mode	Livehooah Technologies Pvt. Ltd India	6.84	15-01-2019	14-01-2020	Suresh Bhalla Dept. of Civil Engineering	Dept. of Civil Engineering
55.	RP03661G	Bi -Weekly Action Plans for Effective and Efficient Management of PM2.5 Concentrations in the Delhi City	Central Pollution Control Board., New Delhi India	3.78	22-01-2019	21-07-2019	Sri Harsha Kota Dept. of Civil Engineering	Dept. of Civil Engineering
Dept. of Computer Science & Engg.								
56.	RP03521G	Building end to end 5G Test Bed	Ministry of Communication & Information Technology India	1159.81	01-04-2018	31-03-2021	Huzur Saran Dept. of Computer Science & Engg.	Bharti School of Telecommunication Technology & Management
57.	RP03561G	Social Media Analytics for Security (SMACS)	National Security Council Secretariat India	813.60	28-06-2018	27-06-2020	Srikanta Bedathur Jagannath Dept. of Computer Science & Engg.	School of Information Technology
58.	RP03677F	IBM - IITD AI Horizons Network- Neuro-Symbolic Information Systems	International Business Machines Corporation United States	450.00	26-11-2018	25-11-2021	Srikanta Bedathur Jagannath Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.

59.	RP03542G	Blockchain Technology for E-Stamp Paper	Security Printing and Minting Corpn. of India Ltd	145.20	02-05-2018	01-05-2019	Huzur Saran Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.
60.	RP03678G	MAVI: Mobility Assistant for Visually Impaired	Department of Science & Technology India	100.78	14-03-2019	13-03-2022	M Balakrishnan Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.
61.	RP03684G	Generating and Rendering Virtual Models of Indian Natural and Cultural Heritage Sites from Head Mounted and Drone Mounted Cameras	Department of Science & Technology (DST) India	45.50	23-03-2019	22-03-2022	Chetan Arora Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.
62.	RP03712G	Design of Energy Efficient Computing Systems for Mobile Vision Applications	Science & Engineering Research Board, DST India	38.73	25-03-2019	24-03-2022	Smruti Ranjan Sarangi Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.
63.	RP03659G	Mapping brain activity during audio guided Meditation using fMRI	Department of Science & Technology (DST) India	29.11	01-02-2019	31-01-2021	Rahul Garg Dept. of Computer Science & Engg.	National Resource Centre for Value Education in Engineering (NRCVEE)
64.	RP03620G	Symmetry-aware Verification Framework for Concurrency	Science and Engineering Research Board (SERB), DST India	21.52	25-10-2018	24-10-2021	Subodh Vishnu Sharma Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.
65.	RP03688G	Learning from Egocentric Videos	Department of Science & Technology (DST) India	20.21	27-03-2019	26-03-2022	Chetan Arora Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.
66.	RP03646G	Indoor Navigation Assistance of Patients in the RP center	All India Institute of Medical Sciences (AIIMS) India	18.07	01-11-2018	31-10-2019	M Balakrishnan Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.
67.	RP03539N	Question Answering over Complex Queries	IBM India Research Lab India	9.54	24-04-2018	23-04-2023	Parag Singla Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.
68.	RP03591G	AMR-Diag: A novel diagnostic tool for Sequence based Prediction of Antimicrobial Resistance	Indian Council of Medical Research India	8.68	06-09-2018	05-09-2019	Preeti Ranjan Panda Dept. of Computer Science & Engg.	School of Information Technology

69.	RP03572G	Directed Steiner trees and related problems	Science and Engineering Research Board (SERB), DST India	6.60	13-06-2018	12-06-2021	Naveen Garg Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.
70.	RP03550F	VMware Principal Engineer Grant by Ben Pfaff	VMWare United States	6.54	24-05-2018	23-05-2020	Sorav Bansal Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.
71.	RP03547N	Task Oriented Dialog Systems	1MG Technologies Private Limited India	5.00	08-05-2018	07-05-2023	Mausam Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.
72.	MI01929N	DIMTS bus air pollution sensor deployment (pilot project) (Subproject under CERCA)	Alumini IIT Delhi India	5.00	19-03-2019	18-03-2020	Rijurekha Sen Dept. of Computer Science & Engg.	Dept. of Computer Science & Engg.
Dept. of Design								
73.	RP03673G	Development of Refreshable Braille Cells	Science and Engineering Research Board (SERB), DST India	126.56	14-03-2019	13-03-2022	P V Madhusudhan Rao Dept. of Design	Dept. of Design
74.	RP03580N	Tactile Diagrams for Visually Impaired	Indian National Academy of Engineering India	95.00	01-08-2018	31-07-2023	P V Madhusudhan Rao Dept. of Design	Dept. of Design
Dept. of Electrical Engineering								
75.	MI01778G	Design and Development of Baseband Algorithms and Channel Modelling for Massive MIMO (Sub Project under 5G Test Bed Main Project)	Department of Telecommunications India	620.20	01-04-2018	31-03-2021	Saif K Mohammed Dept. of Electrical Engineering	Dept. of Electrical Engineering
76.	RP03638G	Development and Prototyping of ICT enabled Smart Charging Network Components	Department of Heavy Industry India	542.53	01-04-2018	31-03-2020	Sukumar Mishra Dept. of Electrical Engineering	Dept. of Electrical Engineering
77.	MI01776G	LiFi network (Sub Project under 5G Test Bed Main Project)	Department of Telecommunications India	480.00	01-04-2018	31-03-2021	Abhishek Dixit Dept. of Electrical Engineering	Dept. of Electrical Engineering

78.	RP03575G	Design and Development of Biomass -Solar Electricity and Cooling Solutions for Rural India	Department of Science & Technology India	398.88	04-08-2018	03-08-2020	Sukumar Mishra Dept. of Electrical Engineering	Dept. of Electrical Engineering
79.	RP03609G	Research and development of smart, secure, scalable, resilient and adaptive cyber-physical power system (S3RA-CPPS)	Department of Science & Technology India	299.95	05-10-2018	04-10-2021	Bijaya Ketan Panigrahi Dept. of Electrical Engineering	Bharti School of Telecommunication Technology & Management
80.	MI01774G	5G Test-Bed: Energy Harvesting (Sub Project under 5G Test Bed Main Project)	Department of Telecommunications India	241.00	01-04-2018	31-03-2021	Swades Kumar De Dept. of Electrical Engineering	Dept. of Electrical Engineering
81.	RP03567G	Demonstration of grid supportive EV charger and charging infrastructure at LT level (D-EVCI)	Department of Science & Technology India	206.26	16-07-2018	15-07-2021	Sukumar Mishra Dept. of Electrical Engineering	Dept. of Electrical Engineering
82.	MI01782G	Security of Connected Devices in 5G (Sub Project under 5G Test Bed Main Project)	Department of Telecommunications India	95.00	01-06-2018	31-05-2020	Harshan Jagadeesh Dept. of Electrical Engineering	Dept. of Computer Science & Engg.
83.	RP03695G	Flexible and Disposable Heavy metal sensing patch for public health and regulatory applications	Ministry of Human Resource & Development India	81.77	26-03-2019	25-03-2021	Madhusudan Singh Dept. of Electrical Engineering	Dept. of Electrical Engineering
84.	RP03696G	Upconversion based NIR detectors	Ministry of Human Resource & Development India	81.77	23-03-2019	22-03-2021	Madhusudan Singh Dept. of Electrical Engineering	Dept. of Electrical Engineering
85.	RP03724G	Improvement of Power Sharing and Stability in Inverter based Microgrids	Science and Engineering Research Board (SERB), DST India	58.89	28-03-2019	27-03-2022	Sukumar Mishra Dept. of Electrical Engineering	Dept. of Electrical Engineering
86.	RP03586G	Investigation of Time-frequency Approach to Speech Communication in Real Acoustic Environments using Spherical Arrays	Science and Engineering Research Board (SERB), DST India	48.75	25-08-2018	24-08-2021	Lalan Kumar Dept. of Electrical Engineering	Dept. of Electrical Engineering
87.	RP03728G	Development of Virtual Therapy for neurodevelopmental disorders	Ministry of Health & Family Welfare India	47.55	31-03-2019	30-03-2023	Tapan Kumar Gandhi Dept. of Electrical Engineering	Dept. of Electrical Engineering

88.	RP03649G	Artificial intelligence based mobile app for identification and advisory of maize diseases and insect pests	Indian Council of Agriculture Research India	42.58	01-01-2019	31-12-2021	Brejesh Lall Dept. of Electrical Engineering	Dept. of Electrical Engineering
89.	RP03725G	Design and development of a Language-driven IoT Tool Suite	Department of Science & Technology (DST) India	34.48	26-02-2019	25-02-2022	Subrat Kar Dept. of Electrical Engineering	Bharti School of Telecommunicati on Technology & Management
90.	RP03691G	Energy Efficient and Secured Communication for CPS: Algorithm Design, Application, and Hardware Implementation	Department of Science & Technology India	30.09	30-03-2019	29-03-2022	Manav Bhatnagar Dept. of Electrical Engineering	Dept. of Electrical Engineering
91.	RP03670G	Advanced control systems for LIGO	Inter University Centre for Astronomy & Astrophysics India	24.80	01-03-2019	28-02-2022	Deepak Umakant Patil Dept. of Electrical Engineering	Dept. of Electrical Engineering
92.	RP03631G	Cooperative isolated PV systems for Enhancing Reliability of power in rural areas	Department of Science & Technology (DST) India	20.63	26-11-2018	25-11-2020	Bhim Singh Dept. of Electrical Engineering	Dept. of Electrical Engineering
93.	RP03616G	Demonstration of MW scale solar energy Integration in weak grid using distributed energy storage architecture (D-SIDES)	Department of Science & Technology India	20.50	12-10-2018	11-10-2021	Sukumar Mishra Dept. of Electrical Engineering	Dept. of Electrical Engineering
94.	RP03618G	Design and development of programmable forwarding plane for protocol-as-a-service in Software Defined Networks	Science and Engineering Research Board (SERB), DST India	19.99	19-09-2018	18-09-2020	Subrat Kar Dept. of Electrical Engineering	Bharti School of Telecommunicati on Technology & Management
95.	RP03597G	Spin orbit torque driven magnetic domain wall and skyrmion based devices for Artificial Neural Networks	Science and Engineering Research Board (SERB), DST India	18.00	11-09-2018	10-09-2021	Debanjan Bhowmik Dept. of Electrical Engineering	Dept. of Electrical Engineering
96.	RP03596G	Topological Changes in DAE Networks	Science and Engineering Research Board (SERB), DST India	15.53	11-09-2018	10-09-2021	Deepak Umakant Patil Dept. of Electrical Engineering	Dept. of Electrical Engineering
97.	RP03664F	Setting up an educational video streaming service over low-bandwidth connections	Brilyant Networks Inc., USA United States	15.00	23-12-2018	22-12-2019	Subrat Kar Dept. of Electrical Engineering	Dept. of Electrical Engineering

98.	RP03590G	Sensing and Security for Smart IoT	DST-UKIERI <u>Collaborating Institute</u> : Queen Mary University of London	14.13	21-08-2018	20-08-2020	Ranjan Kumar Mallik Dept. of Electrical Engineering	Dept. of Electrical Engineering
99.	RP03624F	Validation and Fine Tuning of the Computer Aided Diagnosis of Pulmonary Tuberculosis Model for the Indian Subcontinent	CRDF Global United States	7.37	01-11-2018	31-10-2019	Brejesh Lall Dept. of Electrical Engineering	Bharti School of Telecommunicati on Technology & Management
100.	RP03690G	Equilibrium Analysis of Bayesian Games with Discontinuous Payoffs for Smart Grid Applications	Science & Engineering Research Board, DST India	6.60	30-03-2019	29-03-2022	Manav Bhatnagar Dept. of Electrical Engineering	Dept. of Electrical Engineering
Dept. of Humanities & Social Sciences								
101.	RP03592F	Geography of Philosophy project	John Templeton Foundation United States	71.34	06-09-2018	05-09-2021	Purnima Singh Dept. of Humanities & Social Sciences	Dept. of Humanities & Social Sciences
Dept. of Management Studies								
102.	RP03694G	Impact of Artificial Intelligence on Productivity, Employability and Business Models in Health Care Sector	Ministry of Human Resource & Development India	68.78	15-03-2019	14-03-2021	Sanjay Dhir Dept. of Management Studies	Dept. of Management Studies
103.	RP03722G	Training for All (T4A) An Integrated Training Program to Train Mainstream and Special Education Needs Students in Employability Skills	Ministry of Skill Development and Entrepreneurship India	57.04	05-02-2019	04-02-2022	Shuchi Sinha Dept. of Management Studies	Dept. of Management Studies
104.	RP03662G	Assessment of multi-stakeholder engagement in tourism - Insights from social media and service providers	Department of Science & Technology India	24.81	11-02-2019	10-02-2021	Arpan Kumar Kar Dept. of Management Studies	Dept. of Management Studies

105.	RP03667G	Status of Readiness of Indian Companies to Respond to the Corporate Social Responsibility (CSR) Legislation and Development of a Model/ Framework to Assess the Societal Impact of CSR	Lok Sabha Secretariat India	10.08	25-02-2019	24-02-2021	Shveta Singh Dept. of Management Studies	Dept. of Management Studies
106.	RP03729N	Corporate Governance in the Financial sector - A comparative analysis of banks and mutual funds	National Foundation of Corporate Governance India	5.99	25-03-2019	24-03-2020	Shveta Singh Dept. of Management Studies	Dept. of Management Studies
107.	RP03528G	Comparative study of the role of innovation strategies in different institutional contexts	Chandragupt Institute of Management Patna India	4.70	05-04-2018	31-05-2020	Sanjay Dhir Dept. of Management Studies	Dept. of Management Studies
108.	RP03637G	Understanding the National Innovation System and its Impact on Start-ups	Chandragupt Institute of Management Patna India	4.50	11-12-2018	10-12-2020	Sanjay Dhir Dept. of Management Studies	Dept. of Management Studies
109.	RP03543G	Concurrent Evaluation and Monitoring of National Food Security Act, 2013	Ministry of Food & Consumer Affairs India	3.00	02-05-2018	01-05-2019	Seema Sharma Dept. of Management Studies	Dept. of Management Studies
Dept. of Material Science & Engineering / CPSE								
110.	RP03594N	Foam Processability of Ultra High Molecular Weight Polyolefins and Its High Performance Applications	Reliance Industries Limited India	101.48	03-09-2018	02-09-2021	A K Ghosh Dept. of Material Science & Engineering / CPSE	Dept. of Material Science & Engineering / CPSE
111.	RP03581G	Self-Cleaning Ultrathin Microgel Membranes for Clean Water and Separation Applications	Science and Engineering Research Board (SERB), DST India	48.73	01-10-2018	30-09-2021	Bijay Prakash Tripathi Dept. of Material Science & Engineering / CPSE	Dept. of Material Science & Engineering

112.	RP03687G	Design and Development of Polymeric Gels for Metal Ion Sequestration from Wastewater	Science & Engineering Research Board, DST India	43.49	20-03-2019	19-03-2022	Josemon Jacob Dept. of Material Science & Engineering / CPSE	Dept. of Material Science & Engineering
113.	RP03681G	Creation of novel organic-inorganic hybrid materials as sorbents for wastewater treatment from heavy metal ions (Indo-Ukraine Joint Project)	Through Department of Science & Technology <u>Collaborating Institutes</u> Chuiko Institute of Surface Chemistry, Ukraine	13.03	20-03-2019	19-03-2021	Bijay Prakash Tripathi Dept. of Material Science & Engineering / CPSE	Dept. of Material Science & Engineering / CPSE
Dept. of Mathematics								
114.	RP03535N	Hackathon Organization for Solving Network Problems	NOKIA Solutions and Networks India Pvt. Ltd., Noida India	75.60	21-04-2018	20-04-2019	Niladri Chatterjee Dept. of Mathematics	Dept. of Mathematics
115.	RP03658N	Solving Problems of Network Operations	NOKIA Solutions and Networks India Pvt. Ltd., Noida India	75.60	01-12-2018	30-11-2019	Niladri Chatterjee Dept. of Mathematics	Dept. of Mathematics
116.	MI01775G	Performance and Dependability Analysis and Development of Testbed of 5G Networks (Sub Project under 5G Test Bed Main Project)	Department of Telecommunications India	43.04	01-04-2018	31-03-2021	S Dharmaraja Dept. of Mathematics	Dept. of Mathematics
117.	RP03582G	Games and Optimization for Energy Management with Stochasticity-GOEMS	Indo French Centre for Promotion of Advanced Research (IFCPAR) <u>Collaborating Institute</u> : Paris Sud University, France	19.08	01-09-2018	31-08-2021	Vikas Vikram Singh Dept. of Mathematics	Dept. of Mathematics

118.	RP03540G	Hindi to English Machine Translation System for Judicial Domain (H-E MT)	Ministry of Electronics and Information Technology India	18.08	27-04-2018	26-04-2021	Niladri Chatterjee Dept. of Mathematics	Dept. of Mathematics
119.	RP03558G	Some Problems in Applicable Algebra	Science & Engineering Research Board, DST India	6.60	21-06-2018	20-06-2021	Rajendra Kumar Sharma Dept. of Mathematics	Dept. of Mathematics
120.	RP03704G	Pointwise A Posteriori Estimates For Finite Element Methods For The Elliptic Obstacle Problem	Science and Engineering Research Board (SERB), DST India	6.60	19-03-2019	18-03-2022	Kamana Porwal Dept. of Mathematics	Dept. of Mathematics
121.	RP03721G	Wavelet methods for PDEs on Network	Department of Science & Technology India	6.60	08-03-2019	07-03-2022	Mani Mehra Dept. of Mathematics	Dept. of Mathematics
122.	RP03623G	On Auto-morphisms of Finite Group	Science and Engineering Research Board (SERB), DST India	4.52	27-09-2018	26-09-2019	Surjeet Kour Dept. of Mathematics	Dept. of Mathematics
Dept. of Mechanical Engineering								
123.	RP03727G	Special Equipment Facility at JATC Ballistic Lab for supporting NITI Aayog Personal Body Armour, Make in India	DRDO, Ministry of Defence India	724.00	31-03-2019	30-03-2024	Naresh Bhatnagar Dept. of Mechanical Engineering	Dept. of Mechanical Engineering

124.	RP03546G	Research in Human-Centered Robotics with special emphasis on Field and Bio-Medical Rehabilitation (Indo-Korea Joint Network Centre on Robotics)	Department of Science & Technology (DST) <u>Collaborating Institutes :</u> Chungnam National University Kyungpook National University Knokuk University Korea Aerospace University Daegu Gyeongbuk Institute of Science & Technology IIT Roorkee, NAL Bangalore CSIR-CMERI Durgapur CSIR-CEERI Pilani	223.77	27-04-2018	26-04-2021	Subir Kumar Saha Dept. of Mechanical Engineering	Dept. of Mechanical Engineering
125.	RP03605G	RuTAG Centre at IIT Delhi Developing Demand Driven Technology for Rural Areas	Office of the Principal Scientific Adviser, Gol India	189.71	01-10-2018	30-09-2021	Subir Kumar Saha Dept. of Mechanical Engineering	Dept. of Mechanical Engineering
126.	RP03697G	Design and Manufacturing of Ultra-high Velocity Bullet and Fragment Resistant Armor	Ministry of Human Resource & Development India	97.24	15-03-2019	14-03-2021	Naresh Bhatnagar Dept. of Mechanical Engineering	Dept. of Mechanical Engineering
127.	RP03551G	Condition monitoring and prediction of thermal runaway through experiments, numerical modeling and estimation of state-of-charge in Lithium-ion cells	Department of Science & Technology India	90.48	01-07-2018	30-06-2021	Amit Gupta Dept. of Mechanical Engineering	Dept. of Mechanical Engineering
128.	RP03657G	Development of a submicrometer resolution electrohydrodynamic jet printer for printing customized polymeric structures	Science and Engineering Research Board (SERB), DST India	75.37	31-03-2019	30-03-2022	Supreet Singh Bahga Dept. of Mechanical Engineering	Dept. of Mechanical Engineering

129.	RP03632G	CRYOPSY: Biopsy tool with in-vivo snap-freezing and cooling of surrounding tissue to reduce bleeding and escalate patient recovery and comfort	Department of Biotechnology, Ministry of Science & Technology India	56.47	01-12-2018	30-11-2022	Debabrata Dasgupta Dept. of Mechanical Engineering	Dept. of Mechanical Engineering
130.	RP03599G	Design and development of biodegradable metal implants for orthopedic and cardiovascular applications	Science and Engineering Research Board (SERB), DST India	45.61	13-09-2018	12-09-2021	Pulak Mohan Pandey Dept. of Mechanical Engineering	Dept. of Mechanical Engineering
131.	MI01802N	Select Study of Air Pollution Reduction Programs around the World: Governance and Implementation Issues (Sub-project under CERCA)	Alumini IIT Delhi India	34.40	16-08-2018	15-08-2020	Nomesh Bhojkumar Bolia Dept. of Mechanical Engineering	Dept. of Mechanical Engineering
132.	RP03615G	Autonomous calibration of robot cameras using on-body markers	Through Department of Science & Technology <u>Collaborating Institutes:</u> Kazan Federal University, Russia	25.55	12-10-2018	11-10-2020	Subir Kumar Saha Dept. of Mechanical Engineering	Dept. of Mechanical Engineering
133.	RP03628G	Investigations on Transient Rotor Dynamic Behavior of Cryogenic Engine Turbo-pump Including Characterization of Dynamic Properties of Rotor Seals	Deptt. of Space, ISRO India	24.51	02-01-2019	01-01-2022	Ashish Kamalakar Darpe Dept. of Mechanical Engineering	Dept. of Mechanical Engineering
134.	RP03526G	Design and Development of a Three-Link Rigid-Flexible Manipulator for High Speed Operations	Science & Engineering Research Board, DST India	18.81	11-04-2018	10-04-2021	Subir Kumar Saha Dept. of Mechanical Engineering	Dept. of Mechanical Engineering
135.	RP03689N	5G Connected Teleoperated Car	Reliance Industries Ltd. India	11.80	12-03-2019	11-03-2020	Sunil Jha Dept. of Mechanical Engineering	Dept. of Mechanical Engineering

136.	RP03564G	Experimental investigations and modelling of magnetic field assisted near dry EDM and magnetic field assisted powder mixed EDM processes	Council of Scientific and Industrial Research India	8.88	21-07-2018	20-07-2021	Pulak Mohan Pandey Dept. of Mechanical Engineering	Dept. of Mechanical Engineering
137.	RP03610G	Novel lipid-filled high strength polymer composite for highly functional joint prosthesis application	Through DST Department of Science & Technology <u>Collaborating Institutes :</u> Kyushu University, Japan	4.36	03-10-2018	02-08-2020	Sujeet Kumar Sinha Dept. of Mechanical Engineering	Dept. of Mechanical Engineering
Dept. of Physics								
138.	RP03530G	Nanoelectronics Network for Research and Application (NNetRA) (Applications of Non-Silicon Based Nanofabrication Technologies and Nanoscale Devices)	Ministry of Electronics and Information Technology and Department of Science & Technology	2676.68	14-04-2018	13-04-2022	Neeraj Khare Dept. of Physics	Nanoscale Research Facility
139.	RP03707G	Design & Development of Mini, Laboratory Table Top, and Full Scale Models of High Speed Shadograph Systems for Analysis of Detonations, Explosions and Gun Shots By Utilizing Digital Image Correlation	DRDO, Ministry of Defence India	705.00	29-03-2019	28-03-2024	Joby Joseph Dept. of Physics	Dept. of Physics
140.	RP03703G	Line velocity interferometer system for shock wave 2D velocity profile measurement.	Ministry of Defence India	597.05	29-03-2019	28-03-2024	Dalip Singh Mehta Dept. of Physics	Dept. of Physics
141.	RP03700G	Quantum Technologies using Hybrid Photons for Secure Communication & Quantum Information	Ministry of Defence India	593.00	29-03-2019	28-03-2024	Joyee Ghosh Dept. of Physics	Dept. of Physics

142.	RP03699G	Development of entanglement based architecture for quantum information technology	Ministry of Defence India	518.80	29-03-2019	28-03-2024	Bhaskar Kanseri Dept. of Physics	Dept. of Physics
143.	RP03717G	Integrated sources of entangled photons for quantum communication and quantum information applications	Department of Science & Technology India	420.02	30-03-2019	29-03-2022	Joyee Ghosh Dept. of Physics	Dept. of Physics
144.	RP03708G	Entanglement enhanced qubit generation for quantum informatics	Department of Science & Technology India	243.02	30-03-2019	29-03-2022	Bhaskar Kanseri Dept. of Physics	Dept. of Physics
145.	RP03713G	To synthesize size selected metal nano particles for plasmonic applications by gas phase and chemical methods	DEPARTMENT OF DEFENCE RESEARCH & DEVELOPMENT, MINISTRY OF DEFENCE India	99.18	29-03-2019	28-03-2022	Bodh Raj Dept. of Physics	Dept. of Physics
146.	RP03706G	Robust laser beam engineering for propagation and imaging through turbulence	Ministry of Defence India	83.22	29-03-2019	28-03-2022	Kedar Bhalchandra Khare Dept. of Physics	Dept. of Physics
147.	RP03555G	Development of Indigenous Handheld Sers Platform for Rapid Detection of Human Immunodeficiency Virus (HIV-1)	Department of Health Research, India India	50.77	01-06-2018	31-05-2020	Jitendra Pratap Singh Dept. of Physics	Dept. of Physics
148.	RP03675G	Technical support for implementing Differential Phase Shift quantum key distribution using discrete components on fiber media	Advanced Numerical Research & Analysis Group (ANUR India	45.00	27-02-2019	26-08-2020	Bhaskar Kanseri Dept. of Physics	Dept. of Physics
149.	RP03619G	Nanoparticle-2D hybrid structures for smart environmental sensing (2D Sense)	Through Department of Science & Technology <u>Collaborating Institutes :</u> SINTEF Digital, Norway India	35.75	10-10-2018	09-10-2021	Bodh Raj Dept. of Physics	Dept. of Physics

150.	RP03698G	Dynamic Spin Injection and Spin-Orbit Torques In 2d-Transition Metal Dichalcogenides/Ferromagnet Heterostructures	Science and Engineering Research Board (SERB), DST India	31.99	20-03-2019	19-03-2022	Pranaba Kishor Muduli Dept. of Physics	Dept. of Physics
151.	RP03671G	Complex (Anti)ferroic Oxides: Atomistic Simulations of Statics and Dynamics at Finite Temperatures	Science & Engineering Research Board India	22.01	25-10-2018	24-10-2021	Brajesh Kumar Mani Dept. of Physics	Dept. of Physics
152.	RP03683G	Molecular self-assembly and intercalation dynamics in Inorganic-Organic hybrid composites : In-situ monitoring of excitons	Science & Engineering Research Board, DST India	17.75	23-03-2019	22-03-2022	Gaddam Vijaya Prakash Dept. of Physics	Dept. of Physics
153.	RP03622G	Generation of V-point singularity by multiple beam interference	Council of Scientific & Industrial Research (CSIR) India	11.88	22-10-2018	21-10-2021	P Senthilkumaran Dept. of Physics	Dept. of Physics
154.	RP03655G	Fabrication of high quality ohmic and Schottky contacts on Ga2O3	Solid State Physics Laboratory, DRDO Min. of Defence India	9.90	25-01-2019	24-07-2020	Rajendra Singh Dept. of Physics	Dept. of Physics
155.	RP03585G	Spin Hall nano-oscillator using ferromagnet/antiferromagnet based heterostructures.	Through Department of Science & Technology <u>Collaborating Institutes :</u> Kyushu Institute of Technology, Japan	7.52	01-08-2018	31-07-2020	Pranaba Kishor Muduli Dept. of Physics	Dept. of Physics
Dept. of Textile Technology								
156.	RP03617G	Design and development of Robot for sliver can transfer from one machine to designated machine	Department of Heavy Industries & Lakshmi Machine Works Limited	464.33	18-12-2018	17-12-2021	S M Ishtiaque Dept. of Textile Technology	Dept. of Textile Technology
157.	RP03533G	Design and Development of Customized 3D Weaving System for Technical Textiles	Ministry of Textiles & Arvind Limited	142.00	16-04-2018	15-04-2021	B K Behera Dept. of Textile Technology	Dept. of Textile Technology

158.	RP03534G	An Integrated Technology Platform for Application of Hemp Fibre In Textile Industry	Ministry of Textiles & Athulya Krishi Foundation India	140.00	16-04-2018	15-04-2021	B K Behera Dept. of Textile Technology	Dept. of Textile Technology
159.	RP03715G	Development of Strong, Flexible & Light weight Fiber Reinforced Silica Aerogel Blankets & Shields as Fire retardant, thermal & acoustic insulation in Aerospace Application	Science and Engineering Research Board (SERB), DST India	81.04	21-02-2019	20-02-2022	B K Behera Dept. of Textile Technology	Dept. of Textile Technology
160.	RP03674G	Nano Respiratory Nasal Filter	Ministry of Human Resource & Development India	80.60	14-03-2019	13-03-2021	Ashwini K Agrawal Dept. of Textile Technology	Dept. of Textile Technology
161.	RP03686G	Technology for Large scale development of textile fibres for wearable electro-optic devices	Ministry of Human Resource & Development India	80.60	22-03-2019	21-03-2021	Manjeet Jassal Dept. of Textile Technology	Dept. of Textile Technology
162.	RP03524G	Electrospun Nanofibers as Effective Polysulfide Trap for Advanced Lithium-Sulfur Batteries	Department of Science & Technology India	68.38	01-07-2018	30-06-2021	Bhanu Nandan Dept. of Textile Technology	Dept. of Textile Technology
163.	RP03665G	Abdul Kalam Technology Innovation National Fellowship for Research	Indian National Academy of Engineering India	57.00	01-02-2019	31-01-2022	Ashwini K Agrawal Dept. of Textile Technology	Dept. of Textile Technology
164.	RP03606G	Design and Development of Conducting Filler Loaded Piezoelectric Polymer Based Flexible Micro Device for Energy Harvesting	Department of Science & Technology India	48.78	01-10-2018	30-09-2021	Md S Wazed Ali Dept. of Textile Technology	Dept. of Textile Technology
165.	RP03573G	Polymer Crystallization Under Confinement in Electrospun Nanofibers	Science and Engineering Research Board (SERB), DST India	45.75	15-09-2018	14-09-2021	Bhanu Nandan Dept. of Textile Technology	Dept. of Textile Technology
166.	RP03601N	Development of Performance Single Polymer Composite (SPC)	GAIL (India) Limited, Noida India	45.28	16-08-2018	15-12-2019	Samrat Mukhopadhyay Dept. of Textile Technology	Dept. of Textile Technology

167.	RP03380G	Development of Multifunctional Fibrous Materials using Green Methods	Science and Engineering Research Board,(DST) India	38.15	16-06-2018	15-06-2021	JAVED NABIBAKSHA SHEIKH Dept. of Textile Technology	Dept. of Textile Technology
168.	RP03577G	Intricate Porous Scaffold via Pickering High Internal Phase Emulsion Templating	Science and Engineering Research Board (SERB), DST India	37.59	01-09-2018	31-08-2021	Rajiv Kumar Srivastava Dept. of Textile Technology	Dept. of Textile Technology
169.	RP03666N	Evaluation of Process Parameters for the Preparation of aliphatic Surfactants for Fluoropolymer Polymerization	Gujarat Fluorochemicals Ltd. India	28.67	01-03-2019	31-08-2020	Bhuvanesh Gupta Dept. of Textile Technology	Dept. of Textile Technology
170.	RP03587G	Harnessing the robust, scalable, and highly porous nonwoven metamaterials with interface engineering aided carbon nanotubes for oil spill clean-ups	Through Department of Science & Technology <u>Collaborating Institutes :</u> University of Szeged, Hungary	27.54	04-09-2018	03-09-2021	Amit Rawal Dept. of Textile Technology	Dept. of Textile Technology
171.	RP03654G	Development of flexible Acoustic Sensors Based on Piezoelectric Electrospun Nanofibers	Naval Physical & Oceanographic Laboratory India	8.93	01-02-2019	31-01-2020	Bhanu Nandan Dept. of Textile Technology	Dept. of Textile Technology
Centre for Applied Research in Electronics								
172.	MI01786G	Design and Development of Air Quality Monitoring System (Sub Project 5G Test Bed Main Project)	Department of Telecommunications India	362.00	01-04-2018	31-03-2021	Monika Aggarwal Centre for Applied Research in Electronics (CARE)	Centre for Applied Research in Electronics
173.	RP03680G	Sub-5V Metal Based MEMS Switches for Radar Beam Steering Antenna under Harsh Environments	Science and Engineering Research Board (SERB), DST India	124.31	08-03-2019	07-03-2022	Pushpapraj Singh Centre for Applied Research in Electronics (CARE)	Centre for Applied Research in Electronics
174.	RP03607G	Gallium-Nitride (GaN) based High-Voltage RF Devices for Defence/Space Applications	Science and Engineering Research Board (SERB), DST India	54.96	15-09-2018	14-09-2021	Ankur Gupta Centre for Applied Research in Electronics (CARE)	Centre for Applied Research in Electronics

Centre for Atmospheric Sciences								
175.	RP03311G	Dynamic Downscaling to Study Climate Change Impacts on Water Resources in India	Ministry of water Resources India	156.65	10-04-2018	09-04-2020	KRISHNA MIRLE ACHUTARAO Centre for Atmospheric Sciences	Centre for Atmospheric Sciences
176.	RP03676G	Satellite-based monitoring of ambient PM2.5 at national scale for air quality management	Central Pollution Control Board India	54.32	01-03-2019	28-02-2022	Sagnik Dey Centre for Atmospheric Sciences	Centre for Atmospheric Sciences
177.	RP03570G	Generation of high resolution (2 x 2 km) weather data for Himalaya	Snow & Avalanche Study Establishment India	28.94	16-07-2018	15-01-2020	Somnath Baidya Roy Centre for Atmospheric Sciences	Centre for Atmospheric Sciences
178.	MI01794N	Assessment and prediction of the air-quality using dynamically downscaled high resolution data from numerical models (Subproject under CERCA)	Alumini IIT Delhi, India	25.00	01-08-2018	31-07-2019	Vimlesh Pant Centre for Atmospheric Sciences	Centre for Atmospheric Sciences
179.	RP03537G	Identifying the sources, transport pathways & characteristics of black carbon (BC) & dust deposition over the glaciers & snow deposits in the Himalayan Karakoram and Hindu Kush Mountain Ranges.	DRDO, Ministry of Defence India	9.77	18-04-2018	09-04-2019	Dilip Ganguly Centre for Atmospheric Sciences	Centre for Atmospheric Sciences
180.	MI01837N	Monitoring air pollution in Delhi NCR using a hybrid approach: Feedback for policy (Subproject under CERCA)	Alumini IIT Delhi, India	9.50	15-11-2018	14-11-2019	Sagnik Dey Centre for Atmospheric Sciences	Centre for Atmospheric Sciences

Centre for Biomedical Engineering								
181.	RP03635G	National Centre for Technology in Family Welfare	Indian Council of Medical Research India	106.27	15-11-2018	14-11-2023	Dinesh Kalyanasundaram Centre for Biomedical Engineering	Centre for Biomedical Engineering
182.	RP03701G	Brain Computer Interface for Facilitated Neuroplasticity: Upper Limb Rehabilitation with EMG Triggered Exoskeletal Robotic Device Synchronized with Brain Stimulation	Ministry of Defence India	81.12	29-03-2019	28-03-2022	Amit Mehndiratta Centre for Biomedical Engineering	Centre for Biomedical Engineering
183.	RP03556G	To define the anti-tumor activity of salinomycin (SAL)-encapsulated biodegradable polymeric nanoparticles and its potential synergy with certain chemotherapeutic drugs or with anticancer peptides	Ministry of Health & Family Welfare India	80.59	15-06-2018	14-06-2020	Harpal Singh Centre for Biomedical Engineering	Centre for Biomedical Engineering
184.	RP03672G	Fluorescent Nanoprobes for squamous cell carcinoma: A step towards developing a rapid tool for margin clearance	Department of Biotechnology, Ministry of Science & Technology India	77.17	08-03-2019	07-03-2022	Neetu Singh Centre for Biomedical Engineering	Centre for Biomedical Engineering
185.	RP03636G	Combination of GLP-1 and angiotensin II type 1 receptor antagonist for the treatment of Type 2 diabetes	Science and Engineering Research Board (SERB), DST India	32.85	12-12-2018	11-12-2021	Jayanta Bhattacharyya Centre for Biomedical Engineering	Centre for Biomedical Engineering
186.	RP03588G	Identification of host factors responsible for infection and development of nano-particle based dsRNA delivery system for imparting resistance to begomoviruses	NFBSRA, Indian Council of Agricultural Research India	21.98	28-08-2018	27-08-2021	Neetu Singh Centre for Biomedical Engineering	Centre for Biomedical Engineering
187.	RP03557G	Development of Methodology for Quantitative CEST-MRI	Science and Engineering Research Board (SERB), DST India	6.60	01-06-2018	31-05-2021	Anup Singh Centre for Biomedical Engineering	Centre for Biomedical Engineering

Centre for Energy Studies								
188.	RP03682G	Study of absorption characteristics of upcoming pairs of HFOs/functional activated carbon composites for potential application in adsorption heat pumps	Ministry of Human Resource & Development India	86.88	15-03-2019	14-03-2021	Dibakar Rakshit Centre for Energy Studies	Centre for Energy Studies
189.	RP03541F	Strategic University Network to Revolutionize Indian Solar Energy (SUNRISE)	EPSRC, UK <u>Collaborating Institutes :</u> Swansea University University of Oxford Brunel University London Imperial College London University of Cambridge IISER Pune IIT Kanpur IICT Hyderabad NPL New Delhi JNCASR Bangalore IISc Bangalore	48.66	01-04-2018	31-03-2022	Viresh Dutta Centre for Energy Studies	Centre for Energy Studies
190.	RP03574G	Development and characterization of an ECR plasma thruster	Science and Engineering Research Board (SERB), DST India	44.71	04-08-2018	03-08-2021	Debaprasad Sahu Centre for Energy Studies	Centre for Energy Studies
191.	RP03563G	Raising Organic Solar Cell Efficiency through Systematic Manipulation and Control of Film Morphology and Internal Built-in Potential with Electrotropic Additives and Electric Field Poling	Science and Engineering Research Board (SERB), DST India	31.90	27-06-2018	26-06-2021	Supravat Karak Centre for Energy Studies	Centre for Energy Studies

192.	RP03523G	Nonlinear Waves and Turbulence with Implication on the Magnetic Reconnection	Indian Space Research Organization, Bangalore India	21.18	02-04-2018	01-04-2021	Mrs. R Uma Centre for Energy Studies	Centre for Energy Studies
Centre for Rural Development Technology (CRDT)								
193.	RP03648G	Development of functional food products from mycelium of medicinal mushrooms	Ministry of Food Processing Industries India	67.00	17-12-2018	16-12-2020	Satyawati Sharma Centre for Rural Development Technology	Centre for Rural Development Technology
194.	RP03693G	Monitoring and Evaluation of Ionization based Air Purifying Technology	Central Pollution Control Board India	186.91	30-03-2019	29-09-2019	Vivek Kumar Centre for Rural Development Technology	Centre for Rural Development Technology
195.	RP03576G	Valorising Waste from Sugar Cane Industries via Innovations in Pre-treatment, Bioproduction and Process Intensification	Department of Biotechnology India	67.73	04-08-2018	03-08-2021	Vivek Kumar Centre for Rural Development Technology	Centre for Rural Development Technology
196.	RP03552G	Development of Sustainable Rural Livelihood Options Utilizing Locally Available Bio-resources through Transformative Rural Technologies in the Indian Himalayan Regions of Himachal Pradesh and Sikkim	G.B. Pant National Institute of Himalayan Environment and Sustainable Development India	49.32	11-05-2018	10-05-2021	Jatindra Kumar Sahu Centre for Rural Development Technology	Centre for Rural Development Technology
197.	RP03589G	Biogas Development and Training Centre (BDTC) Under NNBOIMP Programme of MNRE, Govt. of India	Ministry of New & Renewable Energy India	31.74	01-04-2018	31-03-2020	Virendra Kumar Vijay Centre for Rural Development Technology	Centre for Rural Development Technology

Industrial Tribology, Machine Dynamics & Maintenance Engineering								
198.	RP03568G	Development of wear resistant HVOF coatings for steels	Board of Research in Nuclear Sciences, DAE India	43.05	18-07-2018	17-07-2021	Deepak Kumar Industrial Tribology, Machine Dynamics & Maintenance Engineering	Industrial Tribology, Machine Dynamics & Maintenance Engineering
School of Biological Sciences								
199.	RP03723G	Structure-function studies on a membrane protein from Chikungunya Virus (CHIKV)	Department of Biotechnology, Ministry of Science & Technology India	106.60	13-03-2019	12-03-2022	Manidipa Banerjee School of Biological Sciences	School of Biological Sciences
200.	RP03608G	Metabolic Regime Control for Production of Biotherapeutics	Science and Engineering Research Board (SERB), DST India	45.45	01-10-2018	30-09-2021	James Gomes School of Biological Sciences	School of Biological Sciences
School of Public Policy								
201.	RP03719G	Enhancing India's Science, Technology and innovation Policy Analysis Capabilities	Tata Education and Development Trust India	5000.00	31-03-2019	30-03-2024	Ambuj D Sagar School of Public Policy	School of Public Policy