

3.2.2 Grants for research projects sponsored by the government sources during the last five years ((INR in Lakhs)) (12)

S.no	Name of the Project	Name of the PI / Co PI	Name of Funding Agency	Department of PI / Co PI	Year of Award	Funds Provided (In Lakhs)	Duration of the project
1	Bio Incubator Grant (Bio Nest)	Dr. M. Parvez Alam Dr.S.Hemalatha	Biotechnology Industry Reseach Assistance Council (BIRAC)	CIIC & Life Sciences	2018-19	240.00	3 Years
2	Supply, Erection, Installation, Commissioning, Operation and Maintenanceof Co-Digestion plant for Organic Fraction of Leftover Food waste, Vegetable peels and Fruit peels for Biogas generation from Hotel industry on Turnkey basis - Biogas Plant	Dr. T. Harinarayana	CSIR-Central Leather Research Institute funded by Department of Science and Technology (CLRI & DST)	Mechanical Engineering	2018-19	21.70	1 Year
3	"Synthesis and Characterization of ZrO2 Dispersed Ti, Ti-6Al-4V, Ti-6Al-5V, Ti-6Al-7Nb composite"	Dr. Karunanithi	Science and Engineering Research Board (SERB-TARE)	Aerospace Engineering	2018-19	18.30	3 Years
4	Deasign of Antennas for 5G Applications	Ms.Sivashanmuga Valli	Science and Engineering Research Board (SERB-TARE)	Electronics and Communication Engineering	2018-19	18.30	3 Years
5	Mechanistic anti-tumour activity of vernodaline isolated from centratherum anthelminticum on colorectal cancel cells	Dr. P. Ashok Kumar	Science and Engineering Research Board (SERB)	Life Sciences	2018-19	18.30	3 Years
6	Light induced process of Hierarchical electron cascade system, Materials and Devices for Solar energy conversion	Dr. Asha Jhonsi Mariadoss	Science and Engineering Research Board (SERB)	Chemistry	2018-19	18.30	3 Years
7	Formulating antibiotic resistance breakers to control multidrug resistant pathogenic bacteria	Dr. S. Hemalatha & Mrs. Ranjai	Department of Biotechnology (DBT) -(WOBS)	Life Sciences	2018-19	30.34	3 Years
8	Cellular Automata Models for Propagation of Tsunami Waves	Dr. E.Syed Mohamed	Science and Engineering Research Board (SERB)	Computer Science and Engineering	2018-19	12.48	3 Years
9	Triazole based New Functional Chromophores for optoelectronics and Biological Application	Dr. K. Karthikeyan	Tamil Nadu State Council for Science and Technology (TNSCST)	Chemistry	2018-19	3.2	2 Years

10	An empirical Investigation of Minimum support price on Agriculture Commodities	Dr. Mohd. Amir & Dr. Afzalur Rahman	Tamil Nadu State Council for Science and Technology (TNSCST)	Commerce	2018-19	1.8	1 Year
11	Automation of Climate Control inside a naturally ventilated polyhouse (GREEN HOUSE)	Dr. M. Parvez Alam & Mr. Kannan Ganapathi	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	Management Studies	2018-19	10.00	1 Year
12	Health and Sanitation of Wheels	Dr. M. Parvez Alam & Mr. Ravi Senji	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	Management Studies	2018-19	2.15	1 Year
13	A smart intravenous dripper System for centralized monitoring and automatic control of intravenous fluid.	Dr. M. Parvez Alam & Mr. Radhakrishnan Jothiram	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	Management Studies	2018-19	10.00	1 Year
14	End to End Water Management Solution	Dr. M. Parvez Alam & Mr. Mohideen	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	Management Studies	2018-19	2.00	1 Year
15	Islets Cells Transplantation	Dr. M. Parvez Alam & Dr. Nithya Kalyani	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	Management Studies	2018-19	5.00	1 Year
16	Development of Hybrid Rocket Motor	PI – Dr. P. N. Kadiresh CO-PI – Sri Nithya Mahottmannada	Aeronautics Research & Development Board (AR&DB), (DRDO)	Aerospace Engineering	2017-18	9.79	3 Years
17	Fault diagnosis on single stage helical planetary gearbox using machine learning algorithms	Aquib Yousuf, Aravind.V.K, Aravinda Krishnan.A, Farhanuddin.S.M. Syed Shaul Hameed	Tamilnadu State Council For Science And Technology	Mechanical Engineering	2018-19	0.08	1 Year
18	Phycoremediation of CO2 Level in sub urban area via CO2 Sequestration by native microalgae : an eco friendly approach	Dr D Mubarak Ali, M Santhosh Kumar A Aravindh	Tamilnadu State Council For Science And Technology	Life Sciences	2018-19	0.08	1 Year
19	Development of hybrid nano based BLDC motor and validation of the design by using VLSI technology	Dr. K. Boopathy	Defence Research and Development organisation (DRDO)	Electrical and Electronics Engineering	2017-18	9.79	2 Years

20	Corrosion protection and service life extension of reinforced concrete roofing systems in existing buildings	Ms.Roopa	Science and Engineering Research Board (SERB)	Civil Engineering	2017-18	18.30	3 Years
21	Endophytic diversity of herbal plant Hibiscus	Dr.Wasima. M	Department of Biotechnology (DBT)	Life Sciences	2017-18	8.00	1 Year
22	Structural Behaviour of Corroding Prestressed Concrete Systems and Extension of Service Life using Cathodic Protection (In collaboratin with IIT, Madras)	Dr. M.S. Haji Sheik Mohammed (Co PI)	Science and Engineering Research Board (SERB)	Civil Engineering	2017-18	49.50	3 Years
23	Development of Graphene and Metal Nanoparticles Reinforced Flexible Polymer nanocomposites for Effective Electromagnetic Interference (EMI) Shielding Applications	Dr. M. Basheer Ahamed	Science and Engineering Research Board (SERB)	Physics	2016-17	28.01	3 Years
24	Seismic performace of exterior beam column joint using ferrocement jacket	Dr. J. Revathy	Tamilnadu State Council For Science And Technology (TNSCST)	Civil Engineering	2016-17	0.10	1 Year
25	Application of nano particles in green concrete for sustainable built enviroinment	Dr. J. Revathy	Tamilnadu State Council For Science And Technology (TNSCST)	Civil Engineering	2016-17	0.10	1 Year
26	Construction of optical logic gates using soliton collisions and study of electrical solitons in nonlinear transmission lines	Dr. M. Vijaya jayanthi	Science and Engineering Research Board (SERB)	Physics	2016-17	32.44	3 Years
27	Antimicrobial Efficacy and Mechanisms of Whole Plant Extract of Acacia Arabica with Triphala on Biofilm Forming Cariogenic Microorganisms	Dr. Karthikeyan Ramalingam	The Ministry of Ayurveda, Yoga & Naturopathy, Unani, Siddha, Sowa Rigpa and Homoeopathy (AYUSH-EMR)	Life Sciences	2017-18	33.00	3 Years
28	Synthesis of antimicrobial nanoemulsions for the treatment of multi-drug resistant ESKAPE pathogens	Dr. Karthikeyan Ramalingam	Science and Engineering Research Board (SERB)	Life Sciences	2017-18	23.28	3 Years
29	Tamil Plagiarism Checker	Dr. Shriram	Tamil Virtual Academy (TVA)	Computer Science and Engineering	2017-18	2.15	1 Year
30	Tamil Tholkappiam	Dr. Shriram	Central Institute of Classical Tamil (CICT)	Computer Science and Engineering	2017-18	2.50	1 Year
31	gpX1 gene polymorphisms and mitochondrial ROS signaling in cancer risk	Dr. Soumen Bera	Science and Engineering Research Board (SERB)	Life Sciences	2015-16	4.00	3 Years

32	Identifying the molecular basis of peroxidase activity of Peroxiredoxin 6 - An approach for designing Antioxidant Peptides and Inhibitors	Dr. Md Khurshid Alam Khan	Science and Engineering Research Board (SERB)	Life Sciences	2015-16	14.30	3 Years
33	Sesmic retrofitting of pre-stressed concrete beams externally bonded with fibre reinforced polymer composites	Dr. J. Revathy	Science and Engineering Research Board (SERB)	Civil Engineering	2015-16	4.50	3 Years
34	Antioxidant gene polymorphisms and ROS in cancer risk	Dr. Soumen Bera	Department of Biotechnology (DBT)	Life Sciences	2016-17	24.75	3 Years
35	A novel access to indolizidines and quinolizidine alkaloids through stereoselective N-tethered intramolecular cyclopropanation of pyridine	Dr. J. Elangovan, Assistant Professor,	Department of Science and Technology (DST-SERB)	Chemistry	2016-17	48.70	3 Years
36	Immunosuppressive cells within inflammatory Tumor Microenvironment	Dr. Neesar Ahmed	Science and Engineering Research Board (SERB)	Life Sciences	2016-17	25.00	3 Years
37	The effect of aluminum on TiAlN, CrAlN and ZrAlN coatings using RF powered Magnetron Sputtering	Dr. S. Beer Mohamed	University Grants Commission - DAE consortium for Scientific Research	Mechanical Engineering	2015-16	8.21	3 Years
38	To study the effect of diclofenac and osmolytes on protein stability in renal disfunction	Dr. Shazia Jamal	Science and Engineering Research Board (SERB)	Life Sciences	2014-15	13.60	3 Years
39	Development of Oil Absorbing Polymer Product for Efficient Removal of Oil Spills in Sea water	Dr. R. Vasanthakumari	Naval Research Board (NRB)	Polymer Nanotechnology	2014-15	20.04	2 Years
40	Synthesis, characterization and optimization of QDs on TiO ₂ surface for quantum dot solar cells	Dr. M. Asha Jhonsi	Science and Engineering Research Board (SERB)	Chemistry	2015-16	19.76	3 Years
41	Synthesis of Novel Low Band Gap Polymer Materials for Solar Cell Applications	Dr. Vajjiravel Murugesan	Science and Engineering Research Board (SERB)	Chemistry	2015-16	23.78	3 Years
42	Development of Graphene SrTiO ₃ based hybrid photocatalytic system for the production of solar fuels	Dr. Noor Aman Ahrar Mundari	Science and Engineering Research Board (SERB)	Chemistry	2015-16	24.98	3 Years

43	Applications of Gold Catalysis For The Synthesis Of Bioactive Heterocycles And Natural Product Mimic	Dr.K.Karthikeyan	Science and Engineering Research Board (SERB)	Chemistry	2014-15	19.66	3 Years
44	Seismic performance of FRP confined concrete filled steel tubular columns	Dr. P. Gajalakshmi	Ministry of Earth Sciences (MOES)	Civil Engineering	2014-15	29.10	3 Years
45	Bismuth titanite quantum photo voltage application	Ms. Saai Harini	Department of Science and Technology (DST)	Chemistry	2014-15	18.14	3 Years
46	Palladium catalysed Buchwald Hartwig coupling of 2-C hydroxymethyl D glycols and aryl halides : Synthesis of functionalized C – Aryl Glycosides	Dr. Bhagavathy	Department of Science and Technology (DST-SERB)	Chemistry	2014-15	42.60	3 Years
47	Wear behavior of duplex coated steels	Dr.R.Rajendran	University Grants Commission - DAE consortium for Scientific Research	Mechanical Engineering	2014-15	5.37	2 Years
48	Investigation of multirate properties of rareearth and transition metal doped bismuth for functional applications	Dr. Shameem banu	Science and Engineering Research Board (SERB)	Physics	2015-16	23.55	3 Years
49	Synthesis and characterization of multiferrote nano composite for functional applications	Dr. Shameem banu	Department of Science and Technology (DST)	Physics	2015-16	14.19	3 Years
50	Preparation of rare-earth doped molybdate nanostructures using soft chemical route for optp electronic applications	Dr. J. Thirumalai	Science and Engineering Research Board (SERB)	Physics	2014-15	23.64	3 Years
51	Investigation of chaotic and strange nonchaotic phenomena in coupled nonlinear circuits and systems	Prof. I Raja Mohamed	Science and Engineering Research Board (SERB)	Physics	2014-15	32.46	3 Years
					Total	1069.31	