

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

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.S.Hemalatha	Biotechnology Industry Research Assistance Council (BIRAC)	Life Sciences	2018	180.00	3 Years
2	Supply, Erection, Installation, Commissioning, Operation and Maintenance of 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)	ESPAC (Department of Research)	2019	21.70	1 Year
2	Mechanistic anti-tumour activity of vernodaline isolated from centratherum anthelminticum on colorectal cancer cells	Dr. P. Ashok Kumar	Science and Engineering Research Board (SERB)	Life Sciences	2019	18.30	3 Years
3	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	2019	18.30	3 Years
4	Cellular Automata Models for Propagation of Tsunami Waves	Dr. E.Syed Mohamed	Science and Engineering Research Board (SERB)	CSE	2019	12.48	3 Years
5	Triazole based New Functional Chromophores for optoelectronics and Biological Application	Dr. K. Karthikeyan	Tamil Nadu State Council for Science and Technology (TNSCST)	Chemistry	2019	3.2	2 Years
6	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	2019	1.8	1 Year
7	Automation of Climate Control inside a naturally ventilated polyhouse (GREEN HOUSE)	Kannan Ganapathi	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	ECE	2019	10.00	1 Year

8	Health and Sanitation of Wheels	Ravi Senji	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	Life Sciences	2019	2.15	1 Year
9	A smart intravenous dripper System for centralized monitoring and automatic control of intravenous fluid.	Radhakrisnan Jothiram	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	IT	2018	10.00	1 Year
10	Development of Hybrid Rocket Motor	PI – Dr.P.N.Kadiresh CO-PI – Sri Nithya Mahottmannada, Aeronautical Engineering	The Ministry of Aeronautics R&D Board (DRDO)	Aeronautical Engineering	2019	9.79	3 Years
11	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	2019	0.08	1 Year
12	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	2019	0.08	1 Year
13	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)	EEE	2018	9.80	2 Years
14	Corrosion protection and service life extension of reinforced concrete roofing systems in existing buildings	Ms.Roopaa	Science and Engineering Research Board (SERB)	Civil	2018	8.25	3 Years
15	Endophytic diversity of herbal plant Hibiscus	Dr.Wasima. M	Department of Biotechnology (DBT)	Life Sciences	2018	8.00	1 Year

16	Structural Behaviour of Corroding Prestressed Concrete Systems and Extension of Service Life using Cathodic Protection	Dr. M.S. Haji Sheik Mohammed	Science and Engineering Research Board (SERB)	Civil	2018	49.50	3 Years
17	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	2017	28.01	3 Years
18	Seismic .....of exterior beam column joint using ferrocement jacket	Dr. J. Revathy	Tamilnadu State Council For Science And Technology (TNSCST)	Civil	2017	0.10	1 Year
19	Application of nano particles in green concrete for sustainable built environment	Dr. J. Revathy	Tamilnadu State Council For Science And Technology (TNSCST)	Civil	2017	0.10	1 Year
20	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	32.44	3 Years
21	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	33.00	3 Years
22	Synthesis of antimicrobial nanoemulsions for the treatment of multi-drug resistant ESKAPE pathogens	Dr. Karthikeyan Ramalingam	Science and Engineering Research Board (SERB)	Life Sciences	2016	23.28	3 Years
23	Tamil Plagiarism Checker	Dr. Shriram	Tamil Virtual Academy (TVA)	CSE	2017	2.15	1 Year
24	Tamil Tholkappiam	Dr. Shriram	Central Institute of Classical Tamil (CICT)	CSE	2017	2.50	1 Year

25	gpX1 gene polymorphisms and mitochondrial ROS signaling in cancer risk	Dr. Soumen Bera	Science and Engineering Research Board (SERB)	Life Sciences	2015	4.00	3 Years
26	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	14.30	3 Years
27	Sesmic retrofitting of pre-stressed concrete beams externally bonded with fibre reinforced polymer composites	Dr. J. Revathy	Science and Engineering Research Board (SERB)	Civil	2015	4.50	3 Years
28	Antioxidant gene polymorphisms and ROS in cancer risk	Dr. Soumen Bera	Department of Biotechnology (DBT)	Life Sciences	2015	24.75	3 Years
29	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	48.70	3 Years
30	Immunosuppressive cells within inflammatory Tumor Microenvironment	Dr. Neesar Ahmed	Science and Engineering Research Board (SERB)	Life Sciences	2016	25.00	3 Years
31	The effect of.....Magnetron sputtering	Dr. S. Beer Mohamed	University Grants Commission - DAE consortium for Scientific Research	Mechanical Engineering	2015	8.21	3 Years
32	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	13.60	3 Years
33	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	20.04	2 Years

34	Synthesis, characterization and optimization of QDs on TiO <sub>2</sub> surface for quantum dot solar cells	Dr. M. Asha Jhonsi	Science and Engineering Research Board (SERB)	Chemistry	2014	19.76	3 Years
35	Synthesis of Novel Low Band Gap Polymer Materials for Solar Cell Applications	Dr. Vajjiravel Murugesan	Science and Engineering Research Board (SERB)	Chemistry	2015	23.78	3 Years
36	Development of Graphene SrTiO <sub>3</sub> based hybrid photocatalytic system for the production of solar fuels	Dr. Noor Aman Ahrar Mundari	Science and Engineering Research Board (SERB)	Chemistry	2015	24.98	3 Years
37	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	19.66	3 Years
38	Seismic performance of FRP confined concrete filled steel tubular columns	Dr. P. Gajalakshmi	Ministry of Earth Sciences (MOES)	Civil	2014	29.10	3 Years
39	Bismuth titanite quantum photo voltage application	Ms. Saai Harini	Department of Science and Technology (DST)	Chemistry	2014	18.14	3 Years
40	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	42.60	3 Years
41	Wear behavior of duplex coated steels	Dr.R.Rajendran	University Grants Commission - DAE consortium for Scientific Research	Mechanical Engineering	2014	5.37	2 Years

42	Investigation of multirate properties of rare earth and transition metal doped bismuth for functional applications	Dr. Shameem banu	Science and Engineering Research Board (SERB)	Physics	2015	23.55	3 Years
43	Synthesis and characterization of multiferroite nano composite for functional applications	Dr. Shameem banu	Department of Science and Technology (DST)	Physics	2015	14.19	3 Years
44	A non enzymatic enantioselective design in the Wittig reactions and its application in the total synthesis of caprolactone-potential anti-neoplastic agents of marine origin	Dr. S. Mahasampath Gowri	Department of Science and Technology (DST)	Chemistry	2013	2.05	1 Year
45	Preparation of rare-earth doped molybdate nanostructures using soft chemical route for optoelectronic applications	Dr. J. Thirumalai	Science and Engineering Research Board (SERB)	Physics	2013	23.64	3 Years
46	Investigation of chaotic and strange nonchaotic phenomena in coupled nonlinear circuits and systems	Prof. I Raja Mohamed	Science and Engineering Research Board (SERB)	Physics	2013	32.46	3 Years
					<b>Total</b>	<b>927.38</b>	