



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

LIST OF ONGOING FUNDED RESEARCH PROJECT

Name of the Principal Investigator/ Co-Investigator (if applicable)	Department of the Principal Investigator/ Co-Investigator	Name of the Funding Agency	Type (Government/Non-Government)	Month and Year of receiving the grant	Duration of the Project	Title of the Project	Funds Received (in Rs.)
Dr. D.Prince Winston	EEE	AICTE -RPS	Government	Nov'2019	3 Years	Improvement of Power Generation in a 20kW Solar PV Power Plant through Bypass Diode Scanning Algorithm and Modified Couple Matching Algorithm	1,50,000



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

LIST OF COMPLETED MAJOR RESEARCH PROJECTS

S.No	Name of the Principal Investigator/ Co-Investigator (if applicable)	Department of the Principal Investigator/ Co-Investigator	Name of the Funding Agency	Type (Government/ Non-Government)	Month and Year of receiving the grant	Duration of the Project	Title of the Project	Funds Received (in Rs.)
1.	Dr. J.Jeslin Drusila Nesamalar	EEE	SERB-SRG	Government	Jan'2020	2 Years	Optimal Design and Development of Machine Learning Model for Remote Monitoring and Control of Hybrid Microgrid in Educational Institutions using Smart Sensor Network and IoT	28,64,400
2.	Dr.S.Karthikumar	BT	Institutions of Engineers	Non-Government	Mar'2020	3 months	Enzymatic synthesis of feruloyl lipid as an antioxidant blend to improve the oxidative stability of	50,000

							biodiesel	
3.	Dr.S.Mariaamalraj	BT	Institutions of Engineers	Non-Government	Mar'2020	3 months	Intimation of Approval for R&D Project entitled: "Design and Fabrication of Foam Separation Column to Remove Chromium Heavy Metal from Leather Tannery Effluent"	60,000
4.	Dr. C. T. vijayakumar, Dr. Shamim	PT, Chemistry	Defence Bioengineering and electrochemical Laboratory(DEBEL), (DRDO), Ministry of defence, CV Raman Nagar, Bangalore- 560 093	Government	Jan'2018	1, 1/2 Year (18 months)	Synthesis on metal organic frameworks(MOFs) for nanofiber reinforced composite materials	9,78,000
5.	Dr.R.Shyam Kumar & Dr.I.Ganesh Moorthy Collaborator: Dr.N.Thajuddin, Dr.D.Dhanasekaran Bharatidhasan University (BDU), Trichy	BT	Department of Biotechnology, Ministry of Science and Technology, Government of India	Government	Feb'2017	3 Years (Extended upto 2022)	Culturable Actinomycetes Associated with Coastal Lichens: A Potential Source of Bioactive Compounds	45,89,200
6.	Dr.V.C.Padmanaba	BT	Department of	Govern	2013	4 Years	Process development of	14,50,000

	n		Atomic energy, BARC- Board of Research in Nuclear Science, Mumbai. Government of India	ment			textile dye degradation by wild type and radiation induced mutants.	
7.	Dr.M.Vasanthi	BT	AICTE–All India Council for technical Education, New Delhi	Government	April'2012	1 Year	Modernization and removal of Obsolescence Scheme (MODROBS))	12,00,000
8.	Dr. R. Anbarasan, Dr. Yelil Arasi	PT, Physics	Defense Research & Development Organization	Government	July'2012	3 years	Synthesis and Characterizations of super hydrophobic copper and aluminum substrate for optoelectronic applications	50, 87,000
9.	Mr.I.Ganesh Moorthy Dr.Anant Achary	BT	AICTE – All India Council for technical Education, New Delhi (Research Promotion Scheme)	Government	Jun'2010	2 Years	Optimization of medium, Process parameters and purification of Alkaline protease from Novel Bacillus species through design of experiments	2,50,000
10.	Dr. C.T.Vijayakumar	PT	Department of Atomic Energy, Board of Research in Nuclear Science(BRNS)	Government	Aug'2010	3 Years	Development of Electron Beam Curable resins for fibre reinforce composites	21,63,650
11.	Dr.	PT	Defence	Govern	Dec'2008	3 Years,	Development of Novel High	18,28,000

	C.T.Vijayakumar		Research & Development Organization, Ministry of Defence, Delhi – 110 054:	ment			Temperature Resistant Matrix Resins for Aerospace appln.	
12.	Dr.A.Thangaraja & Dr.K.Jegatheesan	BT	Tamil Nadu State Council for Science & Technology, Chennai	Government	June'2008	2 years	Nano biotechnological approaches to synthesis of nano crystalline silica particles from agro waste for health care	2,00,000
13.	Dr.Anant Achary	BT	Defence Research & Development organization, Life science Research board, DRDO Bhawan, New Delhi	Government	Mar'2007	3 years	Production process optimization and characterization of sulfated fucoidans from brown algae that has diverse pharmaceutical potential	8,38,000
14.	Dr. C.T.Vijayakumar	PT	Indira Gandhi Centre For Atomic Research, Kalpakkam- 603 102:	Government	Sep'2007	1, 1/2 Year (18 months)	Development of Intumescent Polymers for extinguishing Sodium Fire	9,56,000
15.	Dr. R. Anbarasan	PT	Department of Science & Technology, Newdelhi	Government	July'2005	3 Years	Melt functionalisation of Polyolefins – a FTIR study	10,62,000
16.	Dr.K.Vigneswari & Dr.K.Jegatheesan	BT	Defence Research & Development	Government	Mar'2004	3 years	Development of a microbial consortium to degrade packaging polymers Nylon	3,00,000

			Organization, Ministry of Defence Government of India				and PVC	
17.	Dr.K.Jegatheesan & Dr.K.Vigneswari	BT	Defence Research & Development Organization, Ministry of Defence Government of India	Government	Jun'2003	3 years	Isolation and identification of antihepatatic principle from fields grown and in vitro plants of Eclipta prostrate	4,55,000
18.	Dr. C.T.Vijayakumar	PT	Centre for Fire, Explosive & Environment Safety, Defence Research & Development Organization, Ministry of Defence, Brig. SK Mazumdar Road, Timarpur, Delhi – 110 054	Government	Jul'2003	4 Years	Development of degradable polymers having applicability at high altitudes and sub-zero temperature	9,90,600

19.	Dr. C.T.Vijayakumar	PT	Defence Materials & Stores R&D Establishment, DMSRDE Post Office,GT Road, Kanpur- 208 013:	Govern ment	Oct' 2003	3 Years	Development of novel polyimide encapped oligomers as high temperature matrix resins	4,85,600
-----	------------------------	----	-----------------------------------------------------------------------------------------------------------------	----------------	-----------	---------	----------------------------------------------------------------------------------------------	----------



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

LIST OF COMPLETED MINOR RESEARCH PROJECT

S.No	Name of the Principal Investigator/ Co-Investigator (if applicable)	Department of the Principal Investigator / Co-Investigator	Name of the Funding Agency	Type (Government/ Non-Government)	Month and Year of receiving the grant	Duration of the Project	Title of the Project	Funds Received (in Rs.)
1.	Dr. B.Guru Karthick Babu	EEE	TNSCST	Government	Mar'2022	3 months	Eco-friendly technique for palatable water generation from atmospheric air using Industrial sludges and aquatic husks in PV/T module imbibed with Random forest technique and IoT	7,500

2.	Dr.N.M.Mary Sindhuja	ECE	TNSCST	Government	Mar'2022	3 months	Power Saving Using Motion Sensor in Public Spaces	7,500
3.	Mr.T.Suresh	Mech	TNSCST-SPS	Government	Mar'2022	3 months	Design and fabrication of solar operated litter raking machine for poultry farm	7,500
4.	Mr.Ponkarthikeyan	Civil	TNSCST-SPS	Government	Mar'2022	3 months	Optimization of cod removal from domestic wastewater by response surface methodology	7500
5.	Dr.S.Karthikumar	BT	TNSCST-SPS	Government	Mar'2022	3 months	Cost effective method development for C-Phycocyanin recovery from spirulina plantensis using Ohmic heating approach	7500
6.	Dr.R.Shyam Kumar	BT	TNSCST-SPS	Government	Mar'2022	3 months	Cost effective Rice Water based green composite film development for food packaging	7500
7.	Dr.I.Ganesh Moorthy	BT	TNSCST-SPS	Government	Mar'2022	3 months	Development of Agro-Waste based heterogeneous Catalyst for the production of Biodiesel from used Cooking Oil.	7500
8.	Dr.A.Ronaldo Anuf	BT	TNSCST-SPS	Government	Mar'2022	3 months	Evaluation of antioxidant potential of Phytoconstituents isolated from Artocarpus haterophyllus peel	7500
9.	Mrs. C. Naga Devi	EEE	TNSCST	Government	Mar'2020	3 months	Graphene Battery	7,000
10.	Dr. B.Guru Karthick	EEE	TNSCST	Government	Mar'2020	3	Ecofriendly based water	7,500

	Babu					months	generation technique to harvest palatable water from green source	
11.	Dr. S.Kalyani Dr. B.Guru Karthick Babu	EEE	IE India	Non-Government	June'2020	3 months	Renewable Energy Based Atmospheric Water Harvesters for the Production of Potable Water	16,000
12.	D.Lenisha J.Juliana G.Janaki, S.Karthikumar*	BT	TNSCST-SPS	Government	Mar'2019	3 months	Development of low cost IoT based high-throughput dip test for organophosphate pesticide detection in fruits and vegetables	7,000
13.	Dr.S.Senthil	Mech	FAER-McAfee	Non-Government	Mar'2019	3 months	An Innovative design and fabrication of blaze extinguisher to avoid fire accidents in automobiles.	7,500
14.	Dr. B.Guru Karthick Babu	EEE	TNSCST-SPS	Government	Jan' 2018	3 months	Nano based fabrication of Eco-friendly product using Polycaprolactone Gastropod Shell	7,500
15.	Dr. P. Manimaran	Mech	TNSCST-SPS	Government	Mar' 2018	3 months	Button operated pneumatic gear changing system for disabled persons	10,000
16.	Dr.S.Krishna Priya	Civil	TNSCST-SPS	Government	Mar' 2018	3 months	Cost reduction in bacterial concrete by using poultry feed as a alternate substrate	10,000
17.	Dr. P. Manimaran	Mech	TNSCST-SPS	Government	Mar' 2018	3 months	E Charger for charging mobiles	10,000
18.	Dr.S.Senthil	Mech	TNSCST-SPS	Government	Mar' 2018	3 months	A novel way of design and fabrication of motor cycle helmet to avoid accident using rapid prototyping technique	5,000

19.	Mr.Wesley Moses Samdoss	ECE	TNSCST- SPS	Government	Mar'2018	3 months	Automated Methylene Dye Reduction Test for assuring the quality ofRaw Milk	5,000
20.	Mr.Ponkarthikeyan	Civil	TNSCST- SPS	Government	Mar'2017	3 months	Removal of lead (Pb II) from waste water using Prosopis Juliflora	10,000
21.	Mrs.Mekala	Civil	TNSCST- SPS	Government	Mar'2017	3 months	Experimental investigation and transport modeling of sorption and leaching of emerging contaminants in sludge amended soil	12,000
22.	Mr. S. Thanga Kasi Rajan	Mech	TNSCST- SPS	Government	Mar'2017	3 months	A novel way of design and fabrication of automatic drunken and drive prevention system by locking accelerator pedal in light and heavy duty vehicles	10,000
23.	Ms.V.Shunmuga Priya S.Pavithra A.Rajashree P.TasneemNisha	BT	TNSCST- SPS	Government	Mar'2017	3 months	Evaluation of anti-cancer properties of phyto chemicals against over expression of MMPs	10,000
24.	Dr.K.Geetha M.Karthigailakshmi	BT	TNSCST- SPS	Government	Mar'2017	3 months	Biosynthesis of TiO ₂ Nanoparticles using Musa paradisica(Banana Peel) extract and evaluations of its Anticancer property	10,000
25.	Mr.S.Manibalan M.Kiruthika A.Shobana M.Swathi	BT	TNSCST- SPS	Government	Mar'2017	3 months	Aptamer mediated inhibition studies on selective target of poly cystic ovarian syndrome in NprEC cell line	10,000

26.	Mr.S.Mariaamalraj B.ArangaNayagi T.Pavithra@lakshmi	BT	TNSCST- SPS	Government	Mar'2017	3 months	Cost effective of biosurfactant using whey and waste frying oil and its application in heavy metal removal	10,000
27.	Dr. S.Kalyani	EEE	TNSCST- SPS	Government	April'2014	3 months	Novel Method to Improve Solar Efficency using Fresnel Lens Concentrator	7,500
28.	Dr.S.Senthil	Mech	TNSCST- SPS	Government	April'2014	3 months	Design and fabrication of simulated kidney by rapid prototyping technique	7,500
29.	Dr.Anant Achary* S.Seshan K.T.Mydeen Pillai G.Sivasubramanian	BT	TNSCST- SPS	Government	Mar'2013	3 Months	Production of biosurfactant using oil sludge as sole carbon source and its potential application in heavy metal recovery from industrial effluent	7,500
30.	Dr.Anant Achary* R.Karthika	BT	TNSCST- SPS	Government	Mar'2013	3 Months	Mosquito larvicidal activity of brown algal extracts against Aedesaegypti	7,500
31.	Dr.P.Manimaran	Mech	TNSCST- SPS	Government	Mar'2013	3 Months	Hybrid solar vertical axis helical wind turbine for the production of electricity	10,000
32.	Mr.R.Manikumar	Mech	TNSCST- SPS	Government	Mar'2013	3 Months	A novel way of designing & fabrication of mechanical heart pump machine	10,000
33.	Mr.S.Senthil	Mech	FAER- Motorola	Non- Government	Mar'2013	3 Months	Design and fabrication of artificial bone for injured person using laminated manufacturing technique.	5,000
34.	Dr.Anant Achary* P.Poorna Chandrika S.Soniya	BT	TNSCST- SPS	Government	Mar'2013	3 months	Cost effective production of biosurfactant using oil industry effluent and its	5,000

	R.Suganya						potential in chromium recovery	
35.	Mr.I.Ganesh Moorthy* K.R.Karthikbabu V.Surya Aathmanathan B.Jeyasuriyan	BT	TNSCST-SPS	Government	Mar'2013	3 months	Eco-friendly biodegradable films derived from Aloe Vera	5,000
36.	Mr.S.Manibalan* V.Durga J.Angel Steffey M.Henna Parveen	BT	TNSCST-SPS	Government	Mar'2013	3 months	Extraction purification of phlorotannins from different species of marine algae and evaluation of its antioxidant and anti-cancer potential	10,000
37.	Dr.Anant Achary* P.Ganesh Kumar S.UdayKumar	BT	TNSCST-SPS	Government	Mar'2010	3 months	Degradation of dyes used in textile industry by Halophilic microorganisms	6,000
38.	Dr. A.Thangaraja* C.Arun Kumar	BT	TNSCST-SPS	Government	Mar'2010	3 months	Synthesis of nanoclay composite for targeted fertilizer delivery system	6,000
39.	Dr.A.Thangaraja* V.C.Padmanaban	BT	TNSCST-SPS	Government	Feb'2008	3 months	Bio-remediation of leather tannery waste effluent by genetically cloned micro-organism	5,000
40.	Dr.A.Thangaraja* A.Nathirabhanu	BT	TNSCST-SPS	Government	Feb'2008	3 months	Synthesis of Chromium nanoparticles from tannery effluent by microbial bio-transformation	5,000