

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
 DOTE Campus, Chennai – 600 025

List of approved science and Technology projects
 Supported by State Grant 2018-2019

Sl. No	Title of Project	Name & Address of Principal investigator	Amount (Rs.)		
			First year	Second year	Total
Agricultural science					
1.	Synthesis and Tailoring of novel degradable plastic using blue green algal and tree oils for application in smart agriculture	Dr.B.Jeberlin Prabina Assistant Professor Dept. of Soil Science and Agricultural Chemistry Agricultural College and Research Inst., (TNAU) Killikulam – 628 252	2,40,000/-	1,55,000/-	3,95,000/- for 2 years
2.	Development of novel chitinolytic consortium based bioformulations and its evaluation as a potential bio control agent against fungal diseases of groundnut (Arachis hypogea.L)	Dr.P.Sivasakthivelan Assistant Professor Dept. of Agricultural Microbiology Faculty of Agriculture Annamalai University Annamalai Nagar – 608 002	1,80,000/-	1,80,000/-	3,60,000/- for 2 years
Biological science					
3.	Conservation plan and capacity building for human Elephant co existence for securing right of passage elephant corridors in Krishnagiri and Dharmapuri districts	Dr.Karthik Saravanan Assistant Professor Dept. of Zoology Govt. Arts College for Men Krishnagiri – 635 001	2,08,500/-	1,50,000/-	3,58,500/- for 2 years
4	Polyphenols from <i>Moringa Oleifera</i> Lam. Leaves in Oxidative stability of sunflower oil – An approach to as safer food system	Dr.R.Gomathi Assistant Professor Dept. of Botany Sri Sarada College for Women Salem – 636 016	1,93,000/-	1,33,000/-	3,26,000/- for 2 years
Engineering and Technology					
5	Cost effective prefabricated modular toilet	Dr S Senthilkumar Professor Dept. of civil Engg., Periyar Maniammai Inst. Of Science and Technology Thanjavur-613403	2,20,000/-	1,25,000/-	3,45,000/- for 01 year & 05 months

6	Fabrication of dissimilar high strength AA7075 Al & Az80A Mg alloy joints using underwater friction stir welding (UFSW) technique	Dr P Sevel Professor Dept. of Mech. Engineering S A Engineering college Chennai-600077	2,81,280/-	1,31,620/-	4,12,900/- for 2 years
7	Low cost portable finger vein authentication device for highly secured applications	Dr T Meera Devi Professor Dept. of ECE Kongu Engineering college Perundurai-638060	2,17,805/-	1,67,000/-	3,84,805/- for 2 years
8	Assistive technology for parkinson and alzheimer disease (PAD) affected people	Dr S Chithra Associate Professor Dept. of IT SSN College of Engineering Chennai-603110	2,05,000/-	2,05,000/-	4,10,000/- for 2 years
9	Toilet cleaning robot	Dr M Suresh Asso. Prof. Dept. of Robotics and Automation PSG College of Technology Coimbatore – 641004	2,62,000/-	1,41,000/-	4,03,000/- for 2 years
10	Prototype development and field trial of body heat operated wearable mini torch light for rural area	Dr.Sanjoy Deb Associate Professor Dept. of ECE Bannai Amman Inst. Of Technology Sathyamangalam - 638401	2,15,000/-	2,00,000/-	4,15,000/- for 2 years
11	A study on fishing zone, environmental pollution in coastal area and analysis of suspended sediments in deep sea area of Gulf of Mannar using Remote Sensing Data	Dr G Wiselin Jiji Professor and Head Dept. of CSE Dr Sivanthi Aditanar college of Engineering Tiruchendur	1,70,000/-	1,70,000/-	3,40,000/- for 2 years
Environmental sciences					
12	Quantification and impact of micro plastics in Environmental and seafood samples of industrially polluted Cuddalore Coast, East Coast of Tamilnadu	Dr.R.Rajaram Assistant Professor Dept. of Marine Science Bharathidasan Universtiy Tiruchirapalli – 620 024	1,60,000/-	1,70,000/-	3,30,000/- for 2 years

13	Ecological and Socio-Economic Utilization of Water Hyacinth (<i>Eichhornia crassipes</i>) for Production of Bio-Energy and Bio-Fertilizer	Dr.R.Kavitha Associate Professor Dept. of Biotechnology Periyar Universtiy PG Extension Centre Dharmapuri – 636 701	2,35,635/-	1,65,000/-	4,00,635/- for 2 years
Physical science including chemistry					
14	Enhancement of Cytotoxic Activity of synthesized Estrogen Receptors embedded with silver and /or carbon nanoparticles against Breast Cancer Cell	Dr.V.Latha Assistant Professor Dept.of Chemistry Sri S.Ramasamy Naidu Memorial College Sattur-626203	2,15,000/-	1,90,000/-	4,05,000/- for 2 years
15	Fabrication and Performance Study of Self Powered Photodetector Towards Practical Usage	Dr.K.Saravanakumar Assistant Professor Dept.of Physics Kongunadu Arts And Science College Coimbatore-641029	2,40,000/-	1,60,000/-	4,00,000/- for 2 years
16	Development of ultrasonic sensors for monitoring heavy mineral accumulation in the littoral zone of Mahabalipuram coast	Dr S Radha Professor Dept. of ECE SSN college of Engineering Kalavakkam-603110	3,15,000/-	1,65,000/-	4,80,000/- for 2 years
17	In silico , in vitro and in vitro analysis of greenly synththesized biologically active compounds derived from plant orgin	Mrs.J Porkodi Assistant Professor Dept. of Chemistry The S.F.R College Sivakasi	2,50,000/-	10,000/-	2,60,000/- for 2 years
Medical Sciences					
18	Evaluation of Clinical Impact and Genomics of Antibiotic resistant bacteria associated with Paediatric sepsis in a tertiary care centre, Chennai	Dr.D.Prabhu Assistant Professor Dept. of Microbiolgy University of Madras Dr.ALMPGIBMS, Taramani Chennai – 600 113	1,90,000/-	1,90,000/-	3,80,000/- for 2 years
19	Development of Grape Seed Proanthocyanidin and Banana Flower Extract as Potential Therapeutic Agents for Gastric Cancer	Dr.K.Padmavathi Associate Professor Dept. of Microbiolgy Sree Balaji Dental College and Hospital Chennai – 600 100	1,70,000/-	2,20,000/-	3,90,000/- for 2 years

Social Sciences					
20	A Study on prudent and economic use of local Environmental resources to create job opportunities for rural women	Dr.Anitha Alice Assistant Professor Dept. of Commerce Auxilium College Vellore – 632 006	1,80,000/-	-	1,80,000/- for 1 year
21	A Study on farmers perception towards the role of pulses in uplifting the rural economy of Dharmapuri District, Tamilnadu	Dr.P.Mohanasundaram Associate Professor Dept. of Commerce Periyar University, PG Extension Centre Dharmapuri – 636 701	1,50,000/-	1,50,000/-	3,00,000/- for 2 years
22	An empirical Investigation of Minimum support price on Agriculture Commodities : A Study of Tamilnadu	Dr.Mohd Amir Assistant Professor Dept. of Commerce B.S.Abdur Rahman Crescent Inst. of Science and Tech., Chennai – 600 045	1,80,500/-	-	1,80,500/- for 1 year
Veterinary Sciences					
23	Mitigation of Ammonia Gas Emission from Intensified Poultry Production	Dr.G.Selvaraju Professor and Head Dept. of Veterinary Public Health and Epidemiology, Veterinary College and Research Institute, Namakkal – 637 002	1,85,000/-	1,07,000/-	2,92,000/- for 2 years
24	Exploiting the potential of eco friendly hydroponic Fodders along with anionic / cationic salts to prevent metabolic disorder and augment milk production and mitigate enteric methane in dairy animals	Dr.S.Gunasekaran Assistant Professor Institute of Animal Nutrition Directorate of Centre for Animal Production Studies, TANUVAS, Kattupakkam – 603 203	1,20,000/-	1,25,000/-	2,45,000/- for 2 years
Total			51,53,720/-	34,09,620/-	85,63,340/-

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Sl. No	Principal Investigator	Title	Amount in Rs.		
			First year	Second year	Total
1	Dr.M.Suganya Assistant Professor Dept. of Sociology Fatima College Madurai - 625 018	Influence of Technology on Indigenous Health Care practices of Antenatal women among scheduled caste in Madurai District of Tamilnadu	1,75,000/-	1,75,000/-	3,50,000/- for 2 years
2	Dr.A.M. Ballamurugan Dept. of Nanoscience and Technology Bharathiar University Coimbatore – 641046	Development and evaluation of therapeutic nanomaterial;s for osteoporosis	2,54,000/-	1,54,000/-	4,08,000/- for 2 years
3	Dr.Florida Tilton Chief Scientist Research Centre for Cellular Genomics Sree Balaji Medical College & Hospital Chennai 600044	Development of TETRA-ARMS PCR based cost effective, rapid diagnostic method for screening obesity & diabetic linked gene polymorphism in polycystic ovarian syndrome (PCOS) among South Indian Tamil population	2,30,000/-	1,30,000/-	3,60,000/- for 2 years
4	Dr.R.Amutha Assistant Professor of Biotechnology Periyar University PG extension center Dharmapuri-636701	Development of novel drug from terminaliah bulian Tribal area of south Tamilnadu treating enteric bacterial pathogensassociated diarrhea	1,90,000/-	2,15,000/-	4,05,000/- for 2 years
5	Dr.M.Maghimaa Associate professor Dept.of Microbiology Muthayammal college of arts &science Rasipuram-637408	Phytoconstituents with hybrid gold nanoparticles as therapeutics to combat multidrug resistant bacterial bovine mastitis and wound in tribal areas of kolli hills, Nammakkal	2,10,000/-	2,10,000/-	4,20,000/- for 2 years
6	Dr.P.Vasan Professor Dept.of Animal nutrition Veterinary college research institute Nammakkal-637002	Natal and neonatal dietary interventions to produce nutrient fortified-antibiotic residue free chicken meat	1,90,000/-	2,40,000/-	4,30,000/- for 2 years

7	Dr.P.Thilakar Assistant Professor Dept. of Veterinary and AH Extension Education Madras Veterinary College Chennai - 600 007	An Integrated approach to develop entrepreneurship skill among rural youth in sheep and goat meat processing	2,80,000/-	--	2,80,000/- for 1 year
8	Dr.S.Sudhaparimala, Associate Professor, Dept. of Chemistry, Ethiraj College for Women, Chennai 600 008	Functionalization of graphene with hetero atoms of O, S, N by green method for pollution management and industrial applications	1,70,000/-	1,70,000/-	3,40,000/- for 2 years
9	DR.M.Elanchezhiyan Manickam Professor and head Dept. of Microbiology Dr.ALM PG IBMS Taramani Campus (University of Madras) Chennai - 600 113	Anti-HCV properties of gold and silver phyllanthus amarus (P.Amarus) nanoparticles	1,85,000/-	1,85,000/-	3,70,000/- for 2 yeras
10	Dr.Mutthiah Shanmugavel Sr.Technical Officer Dept.of Microbiolog CLRI, Adyar Chennai-600020	Production and Characterization of Collagen from Non- immunological Sources for healthcare Applications	1,80,000/-	1,70,000/-	3,50,000/- for 2 years
11	Dr.E.Joy Sharmila Assistant Professor,Dept. of Zoology The American College Madurai-625002	Study on the diversity of butterflies of sirumalai hills eastern ghats, Taminladu	1,96,000/-	1,69,000/-	3,65,000/- for 1 year 6 months
12	Dr A Manikandan Associate Professor Dept. of Chemistry Bharath Institute of Hr. Education and Research Chennai-600073	Green Synthesis methods magneto- optical and catalytic properties of spinel M- doped $AF_{e2}O_4$ nanostructres	2,44,000/-	1,69,000/-	4,13,000/- for 2 years
13	Dr.K.S.Joseph Wilson Assistant Professor&Head Dept. Of Physics Arul Anandar College Karumathur Madurai-625514	Design,Fabrication and Analysis of Nanocomposite Based Microstrip Patch Antenna	1,80,000/-	1,80,000/-	3,60,000/- for 2years
14	Dr.K.Karthikeyan Assistant Professor Dept.of chemistry B.S Abdur Rahman Crescent Institute of Science and Technology Chennai-600048	Triazole based New Functional Chromophores for optoelectronics And Biological Applications	1,60,000/-	1,60,000/-	3,20,000/- for 2years

15	Dr.I.Baskaran Assistant Professor Dept.of Physics Govt.Arts College Cheyyar-604407	Ultra Fine Nanosructured Transition and Rare Earth Metal-Doped Ceo2 for Spintronics Applications	2,75,000/-	1,75,000/-	4,50,000/- for 2years
16	Dr P Ponnusamy Asso. Prof. School of Mech Engg. Vellore Inst. Of Technology Vellore-632014	Experimental investigation on crashworthiness of carbon fiber reinforced crush box for body on the frame vehicles	3,15,000/-	1,00,000/-	4,15,000/- for 2 years
17	Dr S Ramabalan Professor Dept. of Mechanical EGS Pillay Engineering college Nagapattinam-611002	Design and fabrication of semi-circular blade profile structure in vertical axix wind turbine for optimal power generation	2,20,000/-	1,55,000/-	3,75,000/- for 2 years
18	Mrs.A Velumani Prof. and Head Dept. of Civil Engineering SNS College of Engineering Coimbatore -641107	Investigate the efficacy of extraction of high purity silica from rice husk ash nano paticles	3,05,000/-	---	3,05,000/- for one year
19	Dr.B MeenakshiPriya Professor Dept. of Mechatronics Engg., Kongu Engineering College Erode-638060	Design fabrication and control of soft robotic gripper t perform various grasping action	2,85,000/-	1,55,000/-	4,40,000/- for 2 years
20	Dr.S.Karthick Dean/CSE SNS College of Technology SNS Kalvi Nagar Coimbatore - 641 035	Plant weed detection using robot based on image processing and machine learning	2,10,000/-	---	2,10,000/- for one year
21	Dr P K Praseetha Prof and Head Dept. of Nanotechnology Noorul Islam Centre for Higher Education Kumaracoil-629180	Microwave assisted one step green synthesis of carbon quantum dots for wound healing application	2,18,000/-	1,13,000/-	3,31,000/- for one year and six month
22	Dr.K.Srinivasan Professor Dept. of EIE Sri Ramakrishna Engg College Coimbatore-641022	Recent technology for generation of uninterrupted electricity from waste management	2,10,000/-	1,80,000/-	3,90,000/- for 2 years

23	Dr T Sasilatha Professor and Dean Dept. of EEE AMET Deemed University Chennai-603112	Solar still using nano phase change material	2,80,000/-	1,50,000/-	4,30,000/- for 2 years
24	Dr.M.Suresh gandhi Associate Professor School Of Earth And Atmospheric Sciences Guindy Campus- University of Madras Chennai-600025	Hydro geochemical assessment for the charaterisation of coastal aquifers and the influence of sea water intrusion along the coastal belt of Kanchipuram district,TN	2,30,000/-	1,50,000/-	3,80,000/- for 2 years
25	Mrs.M.Beaula Ruby Kamalam Assistant Professor Dept.of Physics The American College Madurai-625002	Enhancing The Super Capacitor Performance in Grahence and Graphence Oxide/Transistion Metal Oxide Nanocomomposites	2,05,000/-	1,50,000/-	3,55,000/- for 2 years
Total			55,97,000/-	36,55,000/-	92,52,000/-