

On-going Projects

Council of Scientific and Industrial Research

SI No.	Title of the Project	Principal Investigator	Department	Santioned Amount	Duration	Year
1	AC Impedance Measurement on Two-Dimensional DNA orgami Structures of various shapes	Prof. Souri Banerjee	Physics	2226000	3years	2012-2015
2	Synthesis of modified TosMIC & BetMIC for use as key reagents in the synthesis of boronated heterocycles	Dr. Anupam Bhattacharya	Chemistry	1755200	3years	2013-2016
3	Localization of flexible polymer chains on chemically heterogeneous surfaces	Prof. K Sumithra	Chemistry	940200	3years	2013-2016
4	Studies on CO ₂ capture from flue gases using regenerable solid adsorbents	Prof. Srikanta Dinda	Chemical Engineering	2384000	3years	2015-2018
5	Pharmacological evaluation of novel double stranded RNA Dependent Protein Kinase (PKR) Inhibitors for diabetic cardiomyopathy	Dr. Artidhar	Pharmacy	2300000	3years	2015-2018
Department of Biotechnology						
SI No.	Title of the Project	Principal Investigator		Santioned Amount	Duration	
1	Novel Biomarker responses to validate acute toxicity of engineered nanoparticles and their physicochemical interactions in earthworm as a model bioindicator of nano (eco) toxicology.	Dr.Sankar Ganesh	Biological Sciences	1407800	3years	2013-2016
2	Strategies against antibiotic resistance in Mycobacterium tuberculosis and Pseudomonas aeruginosa : new drugs for old targets and old drugs for new targets	Prof. D.Sriram	Pharmacy	6192000	3years	2014-2017
3	Non -Invasive Delivery of siRNA to treat Melanoma	Dr. Vamsi Krishna Venuganti	Pharmacy	2284800	3years	2014-2017

4	Adenovirus-delivered RNAi as an antiviral strategy against dengue	Prof. Swaminathan	Biological Sciences	5967500	3years	2014-2017
5	Enzymes from Purine and Pyrimidine Biosynthetic pathway as targets for the development of Mycobacterium tuberculosis drugs	Prof. P. Yogeewari	Pharmacy	4822990	3years	2014-2017
6	Transgenic Embryonic stem cell models for studying the role elevated levels of DNMT1 and DNMT3A in neuropsychiatric disorders	Dr. Nagamohan	Biological Sciences	2410000	3years	2014-2017
7	Cell Penetrating Peptide Octa-Arginine anchored, Multifunctional poly(amidoamine)Dendrimer to Promote delivery of chemotherapeutics in cancer	Dr. Swati Biswas	Pharmacy	3703695	3years	2014-2017
8	UK-India Centre for Advanced Technology for Minimization of indiscriminate use of Antibiotics (UKICAT-MA)	PI - Dr. Prashant Garg (LVPEI), Co-PI - V Vamsi Krishna	Pharmacy	3500000	3years	2015-2016
9	Advancing host-directed therapy for tuberculosis/MDR-TB: Development of novel PKB/AKT1 and Protein Kinase R inhibitors as an adjunctive treatment for tuberculosis	Prof. D. Sriram	Pharmacy	2700000	3 years	2016-2019

Department of Electronics & Information Technology

Sl No.	Title of the Project	Principal Investigator	Department	Santioned Amount	Duration	Year
1	Design and Development of Digital Forensic Tools for Clouds IaaS	Dr. G.Geetha Kumari	Computer Science and Information Systems	5496000	2years	2014-2016

Department of Science and Technology

Sl No.	Title of the Project	Principal Investigator		Santioned Amount	Funding agency	Year
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1	Novel Minimal-Solid lubricant Mixture Application Method for Performance Improvement in Turning	Prof. N Suresh Kumar Reddy	Mechanical Engineering	3250000	3years	2013-2016
2	Photocurable organic-inorganic hybrid precursors for the fabrication of metal oxide micro/nanostructures	Dr.Ramakrishan Ganesan	Chemistry	2598000	3years	2013-2016
3	Study of Decoherence and Entanglement in Non Linear Systems and their Application	Dr.K V S Shivchaitanya	Physics	1416000	3years	2013-2016
4	Structure based rational design and synthesis of mycobacterium tuberculosis inhibitors	Prof. K V G Chandrasekhar	Chemistry	2200000	3years	2013-2016
5	Nano -Scale Characterisation of Human Hair Fibres by using Indentation technique	Dr. Ramesh Babu Adusumalli	Chemical Engineering	2662000	3years	2014-2017
6	Photocatalytic Nox abatement: From mechanism and material peoperties to catalytic performance	Dr. Sounak Roy	Chemistry	2448000	3years	2014-2017
7	Biofuels from lignocellulosic biomass waste: Biosolubilization and biomethanation of lignin	Dr. Asma Ahmed	Chemical Engineering	2410000	3years	2014-2017
8	Finding Aggtegation-induced emission active materials : design, synthesis and photophysical studies of sterically hindered triarylethenes and Tetraarylethenes	Prof. Manab Chakravarthy	Chemistry	2498000	3years	2014-2017
9	Development of Novel Compounds for the Treatment of Neural Complications of Diabetes	Prof. P. Yogeewari	Pharmacy	604000	3years	2014-2017
10	Bianchi type cosmological models in modified theories of gravitation	Prof. Bivudutta Mishra	Mathematics	1108800	3years	2014-2017
11	Towards metalloneurochemistry inside a niosome: a fluoroscence spectroscopy approach	Dr. Amit Nag	Chemistry	2498000	3years	2014-2017

12	D - a-Tocopherol conjugated co-polymer based micelles for improved delivery of chemotherapeutics with reversal of multiple drug resistance	Dr. Swati Biswas	Pharmacy	2240000	3years	2014-2017
13	Characterization of a mouse embryonic stem cell model to study the effects of increased levels of DNA methyltransferase 1 (DNMT1) on abnormal neurogenesis	Dr. K. Nagamohan	Biological Sciences	4038400	3years	2014-2017
14	Gravitational waves from oscillations and instabilities in neutron stars	Dr. Sarmistha Banik	Physics	1476000	3years	2014-2017
15	Mycobacterium tuberculosis acetyl coenzymes a carbonylase inhibitors: structure based drug design, synthesis and biological evaluation	Prof. D. Sriram	Pharmacy	1189000	3years	2015-2018
16	Development of an encryption algorithm for secure transmission of color images	Dr. Manish Kumar	Mathematics	1508053	3years	2016-2019
17	Investigations of folding of Cysteine-rich Neurotoxins in Ionic Liquids by Molecular Dynamics simulation and Quantum Mechanical calculations	Dr. Durba Roy	Chemistry	2522800	3years	2015-2018
18	Role of double stranded RNA dependent protein kinase (PKR) in hypertension: Mechanism and prevention	Arti Dhar	Pharmacy	2604000	3years	2015-2018
19	Tumor targeted nanomedicines for photodynamic therapy	Dr. Swati Biswas	Pharmacy	958000	2years	2015-2017
20	Design and synthesis & biological evaluation of Mycobacterium tuberculosis serine/threonine protein kinase (BPknB) inhibitors	Prof. D. Sriram	Pharmacy	2761000	3years	2015-2018

21	Studies on remaining useful life prediction considering multi-component failures in a wind turbine using prognostic health monitoring techniques	Dr. Sabareesh Geetha Rajasekharan	Mechanical Engg.	2604000	3years	2015-2018
22	Role of interleukin-22 in diabetic wound healing band regeneration	Dr. Onkar Kulkarni	Pharmacy	2726000	3years	2016-2019
Department of Atomic Energy						
Sl No.	Title of the Project	Principal Investigator	Department	Santioned Amount	Duration	Year
1	Construction of arbitrary Tensor Networks using cross approximation techniques	Dr. N. Kishore kumar	Mathematics	289500	3years	2015-2018
2	Spectral element methods for elliptic and parabolic interface problems in R2 on parallel computers	Dr. N Kishore Kumar	Mathematics	1359100	3years	2015-2018
Indian Council of Medical Research						
Sl No.	Title of the Project	Principal Investigator	Department	Santioned Amount	Duration	Year
1	Structured-based Design of Orphan Nuclear Receptor Modulators to treat Diabetes and its complications by targeting RORalpha and Rev-erbalpha	Prof. P. Yogeewari	Pharmacy	2161600	2years	2014-2016
2	Comprehensive intelligent ARI Monitor for early detection of pneumonia in rural areas of Medchal Mandal, AP	Prof.MB Srinivas	EEE	795000	1year	2015-2016
Information Technology Research Academy						
Sl No.	Title of the Project	Principal Investigator	Department	Santioned Amount	Duration	Year
1	Integrated Urban Flood Management in India: Technology-Driven Solutions	Prof. K . Srinivasa Raju	Civil Engineering	1906000	3years	2013-2016
Consultancy Project						

SI No.	Title of the Project	Principal Investigator	Department	Santioned Amount	Duration	Year
1	Daewoong Pharmaceutical Co., Ltd	Dr. Shrikant Yashwant Charde & Prof. Punna Rao Ravi	Pharmacy	527080	1Year	2015
2	Characterization of Fibre / Matrix interface in Advance Composites	Dr. Ramesh Babu Adusumalli	Chemical Engineering	996360	1Year	2015-2016
3	Frequency estimation in wideband receivers with under sampling	Dr. Yoganandam	EEE	999413	9months	2016
4	Screening of immunoglobulin gene sequences of interest	Prof. Suman Kapur	Biological Sciences	563886	6month	2016
5	Analytical development studies for pharmaceutical products	Dr.V.V. Vamsi Krishna	Pharmacy	941190	2years	2016-2018
6	Development for sustained release injectable formulations	Dr. Swati Biswas	Pharmacy	859480	1year	2015-2016
7	Simulation and Modelling to Minimize Porosity level in Aluminum Castings by Ultrasonic Sir Casting	Prof. N S K Reddy	Mechanical Engineering	803200	3 years	2016-2019
8	"Design and Thermal Analysis of Electronic Controller Mounted on Disc"	Prof. Jeevan Jaidi	Mechanical Engineering	249997	6months	2016
9	Development of epigenomes-targeted liposomes for the cancer specific delivery of chemotherapeutic drug, Doxorubicin	Dr. Balaram Ghosh	Pharmacy	2900000	2years	2016-2018
10	Using CEFR based Bilingual Rating Scales to improve the writing ability of ESLlearners: A Multiple case study	Dr.Santosh Mohapatra	Humanities & Social Sciences	148000	1year	2015-2016
11	Effluent Treatment Plant (ETP) and Sewage Treatment Plant (STP)	Prof. Suman Kapur	Biological Sciences	2157440	8months	2015-2016
Department of Electronics & Information Technology(Indo Dutch collaborative)						
SI No.	Title of the Project	Principal Investigator	Department	Santioned Amount	Duration	Year

1	Parallax Lightweight Code Self-verification for IoT devices	Prof.Chittaranjan Hota	Computer Science and Information Systems	3830000	4years	2015-19
Centre of Research Excellence in Waster, Water and Energy						
SI No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Duration	Year
1	Treatment of Nitrogenous Waste Water using Microalgae and its Utilization for Production of Biofuel and other Value added Products	Dr.Asma Ahmed	Chemical Engineering	4500000	3years	2014-2017
2	Anaerobic co-digestion of Food Waste and Organic Fraction of Municipal Solid Waste for the Production of Biogas and Concomitant use of Biogas as Fuel for Cooking and Spent Slurry as Fertilizer	Dr. Sankar Ganesh	Biological Sciences	5000000	3years	2014-2017
3	Removal of NMMO and derivatives from effluent from textile industry	Prof. Suman Kapur	Biological Sciences	670000	8months	2015-2016
Defence Research & Development Organisation						
SI No.	Title of the Project	Principal Investigator	Department	Sanctioned Amount	Duration	Year
1	Enhancement of mechanical properties of Ti-6Al-4V using constrained groove pressing and heat treatment	Prof. Amit Kumar Gupta	Mechanical Engineering	4560000	3 years	2016-2019
2	Characterisation of Fibre/Matrix Interface in advanced composites	Dr. Ramesh Babu A	Chemical Engineering	996360	1year	2015-2016