

**CLOSED PROJECT FINANCIAL YEAR 2018-19**

SI No	TITLE	PI	PHONE	EMAIL	DEPT	INST	COST	PDC	DOMAIN LAB
1	Investigation of Pressure Induced Structural Phase Transition Elastic and ThermoPhysical Properties of Refractory Compounds	Anurag Srivastava	+91-751-244-9826/ +91-98-26189049	anurags@iiitm.ac.in, profanurag@gmail.com	Applied Science	ABV- Indian Institute of Information Technology & Management (IIITM)	13.34	2	DMRL
2	Expert System for infiltration control	V. Vaithiyathan	0989 474 4156	vvv@it.sastra.edu	Chemistry	SASTRA University	12.16	2	ANURAG
3	FPGA Based Single Chip Implementation of AES (RIJNDAEL ALGORITHM) Encryption and Decryption with Error correction	S. Govindaraju	0422-2661287	sgraju_kct@hotmail.com	Information Technology	Kumaraguru College of Engineering	6.60	1	SAG
4	Evaluation of Fatigue Fracture Toughness and Ballistic Performance of Friction Stir Welded AA2519-T87 Aluminium Alloy	S. Malarvizhi	04144- 239734	jeejoo@rediffmail.com	Manufacturing Engineering  Electronic Science Chemistry Nnaoaprticle Application Centre Environmental	Annamalai University	28.98	3	CVRDE
5	Programme on Transdisciplinary Shock Wave Research and Applications	G Jagadeesh	080-22933030	jaggie@aero.iiscernet.in	Aerospace Engg	IISc Bangalore	1,395.00	5	DRDL
6	Studies on Synthesis and Physical Characterization of Nanocrystalline Fe <sub>3</sub> N and Sm <sub>2</sub> Fe <sub>17</sub> N <sub>x</sub> thin Films	S. Balakumar			National Centre for Nanoscience and Nanotechnology	University of Madras	13.20	3	DMRL

7	Exploratory Study on Laboratory Scale Production of Armour Alloys as per procedures Described in Ancient Sanskrit Literature.	A.B.S. Sastry	040-27756677, 098492 01199	sastryji@gmail.com		Srimaharshi Research Institute of Vedic Technology (SRIVT)	13.86	2	DMRL
8	Improvement of energy recovery from wastewater by dark fermentation followed by microbial fuel cells.	Debabrata Das	+91-3222-283758, 09434717424	ddas@hijli.iitkgp.er net.in, ddas.iitkgp@gmail. com	Biotechnology	Indian Institute of Technology (IIT kharagpur)	42.41	3	NMRL
9	Endophytic Fungi from Medicinal Plants of Sathyamangalam Foreset as a source of Medicinally important biomolecules with special reference to Camptothecin and Optimization of Technology Transfer to Industries.	K.P. Kannan	9443774447	vasnathiuk@yahoo.com	Biotechnology	Bannari Amman Instittue of Technology	11.12	3	DRDE
10	Design, Strategies of Macrocyclic Ligand Based Self Assembly of D10 Metal System Photoluminescence Property and Biological Activity	Debajyoti Ghosal	09433230515	debajyoti_g@yaho o.co.in	Chemistry	Jadavpur University	32.47	3	DMSRDE
11	Development of Novel Conducting Copolymer Coating for Anti-Corrosive Applications	D. Gopi	09865538787	dhanaraj_gopi@ya hoo.com	Chemistry	Periyar University	15.65	3	DMSRDE
12	Study of Thermoelectric Properties of Doped and Nano Composites of Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> Ceramic and Hot pressed Bismuth Telluride (Bi <sub>2</sub> Te <sub>3</sub> ) in the Temperature Range ( 300 - 500 K)	Ram Pal Tandon	09818229608	ram_tandon@hot mail.com	Physics & Astrophysics	Delhi University	85.48	2	SSPL

13	Design, Growth, NLO properties and spectroscopic studies of non-linear optical crystals	I. Hubert Joe	+91-471-2530887/ 09447220563	hubertjoe@gmail.com	Centre for Molecular and Biophysics Research	Mar Ivanios College	40.20	3	IRDE
14	Thermal decomposition studies of alternatives to chlorofluorocarbons (CFCs) in the temperature range of 800/1500K, behind the reflected shock waves in a Single Pulse Shock Tube (SPST)	B. Rajakumar	+91-988-403-2682/ +91-44-22574231	rajakumar@iitm.ac.in	Chemistry	Indian Institute of Technology (IIT Madras)	95.60	3	CFEES
15	Development of new functional material for anti corrosive coating	K. Anver Basha	04172-266187/ 09894066901	kanverbasha@rediffmail.com	Chemistry	C. Abdul Hakeem College	17.77	3	DMSRDE
16	Development of Supertough Thermosets from Self Assembled Nanostructured Block Copolymer/ Epoxy Resin Blends	Sabu Thomas	91-481-2730003/ 9447223452	sabupolymer@yahoo.com	Centre for Nanoscience & Nanotechnology	Mahatma Gandhi University	32.80	3	ASL
17	Development of ultrasonic absorbent composite material using date palm leaf fiber	Jyoti Ranjan Mohanty	0663-2430590/ 09437406971	guddy95@gmail.com	Mechanical Engineering	Veer Surendra Sai University of Technology	7.36	3	DMSRDE
18	Design and Development of Thulium-doped fiber lasers for the mid-IR	Deepa Venkitesh	044-22574466/ 9962570972	deepa@ee.iitm.ac.in	Electrical Engineering	Indian Institute of Technology (IIT Madras)	50.56	2	IRDE
19	Recrystallization behavior and evolution of microstructure and mechanical properties in bulk nanostructured duplex steels processed by severe plastic deformation.	Pinaki Prasad Bhattacharjee	+918121091743	pinakib@iith.ac.in	Materials Science and Engineering	Indian Institute of Technology (IIT Hyderabad)	71.85	3	DMRL
20	Development of Metal oxide nanowires for chemical sensors	B.G. Jeyaprakash	+91-9865421411	jp@ece.sastra.edu	ECE	SASTRA University	20.96	3	CFEES

21	Design, Synthesis and Characterization of Chiral crystal and their metal complexes for NLO applications.	B. Singh	09450546785	bsinghbhu@rediffmail.com	Chemistry	Banaras Hindu University (BHU)	43.66	3	DMSRDE
22	A Solution Based Approach to the Fabrication of Novel Chalcogenide Glass Microlens Arrays for the 6- 12 $\mu\text{m}$ Mid IR Optics Applications	Prabhat Kumar Dwivedi	0512-2597026	ashutos@iitk.ac.in	Chemical Engineering	Indian Institute of Technology (IIT Kanpur)	71.29	3	SSPL
23	Ultrashort white light continuum for application in laser spectroscopy	Prem B Bisht	22574866	bisht@iitm.ac.in	Physics	Indian Institute of Technology (IIT Madras)	16.42	3	SSPL
24	1.5 Gsps, 10-Bit CMOS/ BICMOS ADC in 65-nm Process with fin from 750 MHz to 1.25 GHz	Bibhudatta Sahoo	9567730422	bsahoo@am.amrita.rdu, bsahoo@gmail.com	Electronics & Communication Engineering	Amrita Vishwa Vidyapeetham	67.04	2Y 6M	ANURAG
25	Contactless Vital Sign Monitoring System	Nagendra Prasad Pathak	9897148429/ 01332-285771	nagppfec@iitr.ernet.in, nagppfec@gmail.com	Electronics & Computer Engineering	Indian Institute of Technology (IIT Roorkee)	34.00	3	DIPAS
26	Study of propagation of ultrasonic waves in solvent mixture used in preparation on natural fibre from agricultural wastes	Ganeswar Nath	09437108671/ 0663- 2430211	ganesh_nath99@yahoo.co.in	Physics	Veer Surendra Sai University of Technology	8.29	3	DMSRDE
27	Probabilistic Fracture Response of Laminated Panels comprising functionally Graded Materials with Cutouts	Achchhe Lal	9824442503	achchhelal@med.svnit.ac.in	Mechanical Engineering	Sardar Vallabhbhai National Institute of Technology (SVNIT)	26.32	3	DMRL

28	Formulation and evaluation of enriched nutritional supplements through the use of solar food processing technology to combat fatigue and environmental stress in service personnel.	K. Vidyasagar	(040) 23608892 , 9849287894	seed@seedngo.com	Research & Development (R&D)	Society of Energy, Environment & Development (SEED)	31.75	3	DFRL
29	Design, Fabrication and Characterization of liquid crystal based integrated optical waveguides.	Aloka Sinha	11-26596003,	aloka@physics.iitd.ac.in	Physics	Indian Institute of Technology (IIT Delhi)	25.21	2	IRDE
30	Metal Based Biologically active compounds derived from novel Schiff based Ligands: synthesis, Characterization, DFT studies, Antimicrobial/Anticancer/ Cytotoxicity Evaluation.	Sulekh Chandra	011-22911267, 9811226273	schandra_00@yahoo.com	Chemistry	Delhi University (Zakir Husain College)	49.93	3	DIPAS
31	Hardware Trojan Detection and Consistency based Diagnosis.	M. Nirmala Devi	0422-2685000, 9443692274	m_nirmala@cb.amrita.edu	Electronics & Communication Engineering	Amrita Vishwa Vidyapeetham	23.77	2	ANURAG
32	Collaborative Navigation of UAVs-UGVs in GPS Denied Environments	Mangal Kothari	512 2596104, 7839327625	mangal@iitk.ac.in	Aerospace Engineering	Indian Institute of Technology (IIT Kanpur)	30.00	2	CAIR
33	Preparation of Lanthanide Nanoparticles, Characterization and their Nanoemulsion Formulation For Docking Proteins and Developing their Multifunctional Conformational States.	Man Singh	07929289151, 9408635094	mansingh50@hotmail.com	School of Chemical Sciences	Central University of Gujarat	20.02	2	DRDE

34	Development of Environment Friendly Rigid Polyurethane Foam for Multipurpose use	Raminder Kaur	97117212152	rkaurdtu@gmail.com	Polymer Science and Chemical Technology	Delhi Technological University/ Delhi College of Engineering	32.04	3	DLJ
35	Indigenous hybrid sensor and processing integration technology development for defence system on chip applications.	Amit Acharya	40 2301 6106, 9989405424	amit_acharyya@iit.h.ac.in	Electrical Engineering	Indian Institute of Technology (IIT Hyderabad)	99.73	2	RCI
36	Developing operational scenarios for emergent warfare.	Arun Sahgal	26492069, 9313747633		Forum for Strategic Initiative (FSI)	Forum for Strategic Initiative (FSI)	11.18	14M	CAIR
37	To develop lab scale process for polyisoprene synthesis.	G. S. Kapur,	0129-2222204 (O), 9899137444 (M)	kapurgs@indianoil.in	Petrochemical & Polymers	Indian Oil Corporation Ltd	68.33	1	HEMRL
38	Experiments and modeling of the size and concentration effect on the enhancement of various modes of heat transfer in nano fluids and its application In automotive engines.	SK Das				Indian Institute of Technology (IIT Madras)	78.10	3	DMSRDE
39	TCAD based simulation of semiconductor devices	S Karmakar				Indian Institute of Technology (IIT Madras)	49.30	3	SSPL

40	Development and demonstration of control strategies for common rail direct injection (CRDI) engines in a reference engine and extension of the technology for armoured fighting vehicle engines	Ramesh				Indian Institute of Technology (IIT Madras)	317.38	3	CVRDE
41	An experimental and computational study of screech in afterburners.	RI Sujith				Indian Institute of Technology (IIT Madras)	257.36	4	GTRE