

**SANCTION OF FINANCIAL YEAR 2015-16**

SL No	TITLE	PI NAME	PHONE	EMAIL	DEPT	INSTT	COST	PDC	DOMAIN LAB
1	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
2	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
3	Development & Characterization of PEI/Silicone Rubber nanocomposites filled with halloysite (HNT's).	R.M. Mishra	0522-2436910, 07607194021	cipetlko@gmail.com	Central Institute of Plastic Engineering and Technology (CIPET)	Central Institute of Plastic Engineering and Technology (CIPET)	49.56	3	DMSRDE
4	Development of digital holographic technique for the characterization of micro-Optical components.	Anitha Nelleri	044 39931078, 09498026567	anith.nelleri@vit.ac.in	School of Electronics Egg.	VIT University	28.19	3	IRDE
5	Technological and Engineering Challenges in realization of Load Ferrying Robots as Soldier-Assist Systems.	Dipankar Sanyal	03324146177, 9831483461	dipans26@gmail.com	Mechanical Engineering	Jadavpur University	6.50	4M	FTM
6	Feasibility Study of Development of Minesweeping Robot: Design and Technological Challenges.	Jyotirmoy Saha	03324146153, 09432141410	jmoysaha@yahoo.co.in	Production Engg.	Jadavpur University	6.40	4M	FTM
7	Algorithms for Blind Signal Detection and Demodulation.	Sandeep Kumar Yadav	0291-2449022, 9414094607	sy@iitj.ac.in	Department of Electrical Engineering/ICT	Indian Institute of Technology (IIT Jodhpur)	55.24	3	SAG

8	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
9	Durability of High Performance Nano Adhesive Bonding of Aluminium under Aerospace Environments	Shantanu Bhowmik	0422-2685504, 9489959446	b_shantanu@cb.amrita.edu	Dept. of Aerospace Engineering	Amrita University	54.92	3	ADE
10	An Indigenous framework for Authenticity, Integrity and Non-Repudiation in Data Communication.	Sudip Misra	03222-282338, 9734880277	sudipm@iitkgp.ac.in	Information Technology	Indian Institute of Technology (IIT Kharagpur)	60.41	3	SAG
11	Leakage Current in Tunable Thin Films and its Effect on their Microwave Characteristics: Growth of Films, Characterization and Analysis.	K.C. James Raju	040-23134305, 9441917858	kcjrsp@uohyd.ernet.in, kcjrsp@yahoo.com	School of Physics	University of Hyderabad	48.86	2	DMRL
12	Silicon photonic based optical interconnects for advanced high-performance computing.	Shankar Kumar Selvaraja	08022933342, 9481283513	shankar.ks@cense.iisc.ernet.in	Centre for Nano Science and Engg.	IISc Bangalore	492.55	3	SSPL ANURAG
13	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 SAG
14	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

15	Energy-Efficient Intruder Detection Schemes for WSN using Learning-Based Techniques.	Chiranjeev Kumar	0326-2235489, 9431125793	kumar.c.cse@ismdh anbad.ac.in	Computer Science & Engineering	Indian Institute of Technology (IIT Dhanbad) / Indian school of mines	28.52	3	CAIR
16	Enhancement of corrosion resistance of high nitrogen steel weldments.	K. Srinivasa Rao	0891-2844971, 9866596714	arunaraok@yahoo.com	Metallurgical Engineering	A.U. College of Engineering	34.00	3	DMRL
17	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
18	Synthesis and characterization of functionally graded copper metal matrix composites	N. Radhika	0422-2685000, 9443566174	n_radhikal@cb.amrita.edu	Mechanical Engineering	Amrita Vishwa Vidyapeetham	11.30	2	DMRL
19	Photodiode Arrays for Near Infrared Detection and Tracking.	Utpal Das	(0512) 2597150, 9415131123	utpal@iitk.ac.in	EE	Indian Institute of Technology (IIT Kanpur)	66.53	3	SSPL
20	Analytical investigation of subthreshold behavior of Silicon Nano-Tube (SiNT) based Field-Effect-Transistors (FETs).	Pramod Kumar Tiwari	0661-2462467, 9437809739	pramod23amu@gmail.com & tiwarip@nitrkl.ac.in	Electrical Engineering	Indian Institute of Technology (IIT Patna)	19.98	3	SSPL
21	Security analysis of graph theoretic, cluster based routing algorithms in sensors networks.	C. Porkodi	0422-2572177, 9751509771	cpg@mat.psgtech.ac.in	Mathematics	PSG College of Technology	19.00	3	SAG
22	Strategy for alleviation of micronutrient malnutrition through phytic acid removal and micronutrient re-mobilization in wheat grains.	Tanushri Kaul	011-26742962, 9999966205	reddy@icgeb.res.in	Plant Molecular Biology	International Centre for Genetic Engineering & Biotechnology	32.26	3	DRL

23	Development of cost-effective 3-axis intelligent platform stabilization system.	Ashok S	0495-2286301, 9446647271	ashoks@nitc.ac.in	Electrical Engineering	National Institute of Technology (NIT)	37.00	3	IRDE
24	One-Dimensional Semiconductor-based (In,Ga)N Photocatalytic Hydrogen Generation.	K. Jeganathan	09894546936	kjeganathan@yahoo.com	School of Physics	Bharathidasan university	60.72	3	SSPL
25	Development of Process for carboxylated butadiene nitrile latex.	K. I. Suresh	27191447, 9652470482	kisuresh@iict.res.in	Polymers & Functional Materials Division	CSIR - Indian Institute of Chemical Biology	41.52	1	HRMRL
26	Development of cheminformatics portal for assessment of novel high performance energetic materials.	M. Karthikeyan	+91202590 2483, 9767427981	m.karthikeyan@ncl.res.in	Physical Chemistry Division	National Chemical Laboratory	42.01	3	HEMRL
27	Modeling analysis and implementation of 10 kw step up converter.	N. Lakshminarassamma	---	----	Electrical	Indian Institute of Technology (IIT Madras)	95.48	2	CVRDE
28	Terrain Evaluation with 3D Visualisation for Defence operations in infantry Deployment.	R. Jaganathan	044-25399661, 09444917006	rjnathan@gmail.com, rjnathan@unom.ac.in	Geography	University of Madras	46.24	3	DTRL
29	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
30	Finite element based modeling and experimental characterization of C-SiC composite.	Navin Kumar	01881-242170, 09501212380	nkumar@iitrpr.ac.in	School of Mechanical Material and Energy Engg.	Indian Institute of Technology (IIT Ropar)	62.02	3	DMSRDE
31	Indigenous hybrid sensor and processing integration technology development for defence system on chip applications.	Amit Acharya	40 2301 6106, 9989405424	amit_acharyya@iith.ac.in	Electrical Engineering	Indian Institute of Technology (IIT Hyderabad)	99.73	2	RCI

32	Developing operational scenarios for emergent warfare.	Arun Sahgal	26492069, 9313747633		Forum for Strategic Initiative (FSI)	Forum for Strategic Initiative (FSI)	11.18	14M	CAIR
33	Confined interfacial structure and orientation of polyphosphazene polymers at solid and liquid surfaces.	Kailash Chandra Jena	01881-242266, 09779708881	kcjena@iitrpr.ac.in	Physics	Indian Institute of Technology (IIT Ropar)	23.83	3	DMSRDE
34	Design and cryptanalysis of protocols of secure quantum communication.	Anirban Pathak	0120-2594361, 9717066494	anirban.pathak@jiit.ac.in & anirban.pathak@gmail.com	Physics & Materials Science & Engineering	Jaypee Institute of Information Technology University (JIITU)	34.60	3	SAG
35	The quest for new and improved oxide thermoelectrics.	Sunil Nair	25908102, 8007773720	sunil@iiserpune.ac.in	Physics	Indian Institute of Sciences Education & Research (IISER)	26.03	1Y 6M	DLJ
36	Development of adhesive technology for bonding of acrylo-nitrile butadiene rubber (NBR) sheets with anodized aluminum alloy substrates for airborne applications.	Ajay Kumar Tyagi	011-27667267, 27667860, 09891955044	aktyagi@shriraminstiute.org	Material Science Division	Shri Ram Institute for Industrial Research	15.85	1Y 6M	DLJ
37	Development of catalytic process for production isoprene from pure isopentane and isopentane containing refinery C5 streams.	A. K. Sinha	135- 255804,802, 9410188577	asinha@iip.res.in	Hydroprocessing/ RTD, CSIR-IIP Hydroprocessing Lab	Indian Institute of Petroleum	38.66	1	HEMRL
38	Synthesis and scale up of advanced propellant ingredients: Fluoro and Nitrocaprolactones, Tetrazoles and Aluminum Hydride.	M. Gopalakrishnan	04144-228233, 09442389644	mgkrishnan61@gmail.com	Chemistry	Annamalai University	52.88	3	NMRL

39	Development of a hand gesture based interface system for remote controlled surveillance mobile robot.	Samit Ari	6612462464, 9776411475	samit@nitrkl.ac.in & samit.ari@gmail.com	ECE	National Institute of Technology (NIT)	28.60	3	CAIR
40	Electrochemical synthesis of $\alpha$ -Aluminium hydride, a advanced propellant ingredient.	N. Rajalakshmi	66632707, 9841188467	rajalakshmi@arci.res.in	CFCT	International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI)	96.14	3	HEMRL
41	Intelligent real time situation awareness and decision support system for Indian defence.	Sarika Jain	01744-233540, 08950777202	jasarika@nitkkr.ac.in	Computer Application	National Institute of Technology (NIT)	40.52	2	ISSA
42	Synthesis of high nitrogen containing transition-metal complexes for development of environment friendly high energy materials.	Debabrata Maiti	02225767155, 09820907155	dmaiti@chem.iitb.ac.in	Chemistry	Indian Institute of Technology (IIT Bombay)	56.21	3	HEMRL
43	Development of Micro Sensors for Hydrogen, Silance and Ammonia Leak Detection.	M Sridharan	04363-304000 (2277), 90037-66869		Electronics & Communciation Engineering	SASTRA University	31.06	3	SSPL
44	Development of ferrite based magnetic nanocomposites for microwave absorption applications.	Sachin Tyagi	0172-2642545, 09356830861	vshekpmt@rediffmail.com & vshekpmt@csio.res.in	Ubiquitous Analytical Techniques and R&D	CSIR-CSIO	61.16	3	DMSRDE