

2015-16

Instrumentation Development Program me (IDP)

S. No	Project Title	PI Details	Institute	Duration	Total Amount
1.	Design and Development of Mask-less/ Direct Printing PCB Prototyping Machine.	Mr. Ashish Mani, Associate Professor	Amity school of Engineering & Techology, Amity University, Nodia, Uttar Pradesh	2 years	4340400
2.	Design, Assembly, Testing and Multi-Center Evaluation of a Miniature and Portable LIF System for Screening of Oral Malignancy	Dr. Santhosh Chidangil, Professor	MIT Campus, Manipal University, Karnataka	3 years	5257800
3.	Design and Development of Unmanned Aerial Surveillance Vehicle for Radiation Monitoring	Dr. S N Omkar, Principal Research Scientist	Indian Institute of Science, Banglore, Karnataka	2 years	4047600
4.	Design and Development of a machine for continuous cooking and discharging of ragi mudde and ball making	Dr. V D Nagaraju, Principal Scientist	Central Food Technological Research Institute, Mysore, Karnataka	2 years	2583900
5.	Novel vision based blister pack inspection for Pharmaceutical Industries	N Radhakrishnan, Director	Rajalakshmi Engineering College, Tamil Nadu	2 year	3957551

6.	Design & Development of Indigenous Phased Array RF Volume Coil for 1.5 Tesla Magnetic Resonance Imaging	Dr. T Kesavamurthy, Assistant Professor	PSG College of Technology, Coimbatore, Tamil Nadu	2 years	2884782
7.	Design and Development of Laser based Lithography System for MEMS and Semiconductor Device Fabrication	Dr. H Muthurajan, Associate Professor	National Centre for Nanoscience and Nanotechnology, University of Mumbai, Maharashtra	2 years	8116600
8.	Design of pulsed electrical knee stimulator for osteoarthritis (OA) patients	Dr. Dinesh Bhatia, Associate Professor	North Eastern Hill University(NEHU), Shillong, Meghalaya	2 years	3907235
9.	Fully automated coconut harvesting machine	Dr. S Tamil Selvi, Professor & Head	National Engineering College, Kovilpatti, Tamil Nadu	3 years	2441360
10.	Development of a rapid serological test kit for Paragonimiasis and its morphological identification	Dr. V Khamo, Head	Naga Hospital Authority, Kohima, Nagaland	2 years	6750666
11.	Development of Electronic Drape meter based on image analysis technique	Dr. Arindam Basu, Director General	Northern India Textile Research Association, Uttar Pradesh	2 years	3613946

12.	Development of multiplex microarray system for detection of GAS isolates and early diagnostic kit to control prevalence of rheumatic heart disease	Dr. Mohammad Owais, Associate Professor	Aligarh Muslim University, Uttar Pradesh	3 years	6063000
13.	Design and Development of Environment Friendly Plasma System for in-line Treatment of Textile at Moderate speed	Mr. Vishal Jain	Institute for Plasma Reseach, Gandhinagar, Gujarat	3 years	11564000
14.	Development of compact portable scanning tunneling microscope	Dr. Prakash Vinod, Scientist- E	Central Manufacturing Technology Institute (CMTI), Banglore, Karnataka	2 years	9353386
15.	Design and Development of fall prediction and protection system for pelvis & femur fractures : Preliminary study	Dr. Dinesh Kalyanasundaram	Indian Institute of Technology (IIT), Hauz Khas, New Delhi	3 years	2678162
16.	Development of an indigenous affordable no-frill enteral feeding pump	Dr. Peush Sahani, Professor	All India Institute of Medical Sciences (AIIMS), New Delhi	2 years	2385000
17.	Designing, Development and Calibration of PM2.5 and PM10 High Volume Sampler	Dr. Shankar G Aggraval, Senior Scientist	CSIR- National Physical Laboratory, New Delhi	3 years	5462980

18.	Design & Development of Automated External Defibrillator	Dr. Thyagarajan, Professor	T Anna University, Tamil Nadu	2 years	3166600
19.	An indigenous amalgamated/single unit alveolar distractor implant system for oral rehabilitation	Dr. Mehrotra, Professor	Divya King George's Medical University, Lucknow, Uttar Pradesh	2 years	4527750
20.	Development of a cost effective Lysimeter and Method for Leaching studies to estimate the risk assessment of Groundwater contamination	Dr. Tanu Jindal, Professor	Amity University, Nodia, Uttar Pradesh	3 years	3815280
21.	Automatic button feeding-riveting machine for Garments industries	Dr. G Manikandan Contact No. 0452-2465289	Velammal College of Engineering & Technology, Tamil Nadu	2 years	1649100
22.	Modification of Industrial-Grade Sewing Machine to make it User-friendly for Differently-abled Persons	Dr. D Raja, Associate Professor	Sona College of Technology, Tamil Nadu	2 years	1423453
23.	Development of Low Cost, Safe, High resolution Easy to Use Digital X-ray	Dr. H N Suma, Professor & Head	B M S college of Engineering, Banglore, Karnataka	2 years	5937200

24.	Incorporation of Additional soil micronutrients testing with fertilizer management	Dr. Seema Bhadauria, Associate Professor	Raja Balwant Singh College, Agra, Uttar Pradesh	2 years	3245000
25.	Shelf life prediction machine for fruits (Apple)	Dr. Ajit Ashok Bhosale, Workshop Superitendent	Cummins College of Engineering for women, Pune, Maharashtra	2 years	2996457
26.	Development of a portable wheelchair recliner for individual with movement disability	Dr. Bhaskar Aggraval, Assistant Professor	King George's Medical University, Lucknow, Uttar Pradesh	2 years	662200
27.	Validation of Padma Pada Clubfoot brace .	Prof. Vrisha Madhuri	Christian Medical College (CMC), Vellore, Tamil Nadu	2.5 yeas	4347200
28.	Development of blood pump to be used in hemodialysis machines, blood bank and Pharmaceutical applications".	Prof. Vinod K Aggraval, Director	PES Institute of Technology, Banglore, Karnataka	2 years	2969200
29.	Fabrication of nano-biochip for clinical diagnosis	Dr. Sunita Kumbhat, Professor	Jai Narain Vyas University, Jodhpur, Rajasthan	3 years	3617600

30.	Multiplexing of bone markers in an ELISA array and validation for the assessment of bone health”.	Dr. Meena Desai, Scientist- B	National Institute for Research in Reproductive Health, Mumbai, Maharashtra	3 years	2480000
31.	Quality evaluation of Litchi fruit by using E-Vision and E-Nose system health	Dr. B K Yadav, Associate Professor & Head	Indian Institute of Crop processing Technology, Thanjavur, Tamil Nadu	3 years	5099293
32.	Development of lateral flow device for species identification of snake bite and subsequent development of mobile phone based application of payload quantification	Dr. Radhakrishnan R Nair, Scientist-EII	Rajiv Gandhi center for Biotechnology, Kannur University, Thiruvananthapuram, Kerala	3 years	8631800
33.	Development of low cost sweep VEP system”.	Dr. S Shenbaga Devi, Professor & Director	Anna University, Tamil Nadu	2 years	4480000

Waste Management Technologies (WMT)

S. No	Project Title	PI Details	Institute	Duration	Total Amount
1.	High Strength Light Weight Building Blocks from Agricultural Waste.	Dr. Barun Kumar Sanfui, Assistant Professor	Govt. College of Engineering and Ceramic Technology, Kolkata, West Bengal	3 years	6000450
2.	Reclamation of abrasives from bonded, coated and sanitary ware rejects.	Dr. V.E. Annamalai, Professor & Head	SSN College of Engineering, Chennai, Tamil Nadu	3 years	7416000
3.	Design and Development of a hybrid mechanochemical bioreactor for recovery of precious metals and recycling of electronic waste.	Dr. A Nirmala Grace, Associate Professor	Center for Nanotechnology Research, VIT University, Vellore, Tamil Nadu	3 years	7236778

Advanced Manufacturing Technologies (AMT)

S. No	Project Title	PI Details	Institute	Duration	Total Amount
1.	3D Printing of Semi crystalline Polymers.	Dr. Guruswamy Kumaraswamy, Scientist E2	CSIR- National Chemical Laboratory (NCL), Dr. Homi Baba road, Pune- 411008, Maharashtra	2 years	1752900
2.	Automated Assembly of Modular Building Structures: Control Strategies and Sensor Placement.	Dr. Benny Raphael, Associate Professor	Indian Institute of Technology (IIT-Madras), Chennai, Tamil Nadu	3 years	5771955

Technology Development Programmes (TDP)

S. No	Project Title	PI Details	Institute	Duration	Total Amount
1.	Waste to Health - Alternate Livelihood for the potter from waste pulp and thermocol (polystyrene).	Dr. S. Vasanthkumar, Professor & Head	Department of Chemistry, Karunya University, karunya Nagar, Coimbatore- 641114, Tamil Nadu	3 years	3689000
2.	Molecular imprinted polymers for removal of pigments from vegetable oils.	Dr. H.K. Manonmani, Principal Scientist	CSIR-Central Food Technological Research Institute (CFTRI), Mysore, Karnataka 570020	2 years	3395680
3.	Novel acquisition and reconstruction strategies to accelerate magnetic resonance imaging using	Dr. Sairam Geethanath, Head	Dept. of Medical Electronics, Dayananda Sagar College of Engineering, Bangalore- 560078, Karnataka	3 years	7013710

	compassed sensing (NARAMICS).				
4.	Development of Novel UV and Thermal Curable formulations for glasses for structural and architectural applications.	Dr. R.K. Soni, Associate Professor	Department of Chemistry, Coudhary Charan Singh University, Meerut- 2000058, Uttar Pradesh	3 years	8818300
5.	Indigenous design and development of prototype base isolation systems for earthquake hazard mitigation.	Dr. S.D. Bharti, Associate Professor	Dept. of Civil Engineering, Malaviya National Institute of Technology (MNIT), Jaipur-302017, Rajasthan	3 years	54637880
6.	Development of radical nitriding process for improving the life of cutting tools of Agricultural implements.	Mrs. Alphonsa Joseph, Engineer- SE	Facilitation Center for Industrial Plasma Technologies (FCIPT), Gandhinagar-382016, Gujarat	2 years	2790300
7.	A feasibility study to improve of oxygen diffusion barrier properties of polyethylene web by plasma treatment.	Mrs. Purvi Kikani Dave, Scientist- SC	Facilitation Center for Industrial Plasma Technologies (FCIPT), Gandhinagar-382016, Gujarat	2 years	4780988
8.	Lignin De-polymerization: Catalysts for Targeted Performance.	1. Dr. Saptarshi Majumdar, Associate Professor 2. Dr. Debaprasad Shee, Assistant Professor	Dept. of Chemical Engineering, Indian Institute of Technology (IIT-Hyderabad), ODF campus, Medak Dist.,	2 years	6281000

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9.	Solid phase purification of mixed salts from R.O. Rejects at Leather Industries - Process development.	Dr. N.N. Rao, Senior Principal Scientist & Professor	Waste Water Technology Division, National Environmental Engineering Research Institute (NEERI), Nagpur-440020, Maharashtra	3 years	5153112
	Green approach for synthesis of optical brightening agent and its activation for better performance for industrial applications.	Dr. Sunil Kumar, Research Scientist cum Group Head	1. Avantha Centre for Industrial Research & Development (ACIRD), Yamuna Nagar, Haryana	2 years	4232560
10.			2. Department of Chemistry, Punjabi University (PU), Patiala-147004, Punjab.		
11.	Design and development of long term evaluation 4G Mimo Antenna.	Dr. M A Maluk Mohamed, Principal	M.A.M College of Engineering, Triruchirappalli-621105, Tamil Nadu	3 years	6121280
12.	Designing a Reflecting Light Microscope for 3D Imaging of Thick and Irregular Surface.	Dr. Atindra D. Shukla, Associate Professor	Shah-Schulman Center for Surface Science & Nanotechnology, Dharmsinh Desai University, Nadiad- 387001, Gujarat	3 years	8075980

13.	Polymer waste as fused deposition modeling feed stock filament for industrial application.	Dr. Rupinder Singh, Professor	Dept. of Production Engineering, Guru Nanak Dev Engineering College, Ludhiana-141006, Punjab	3 years	8524560
14.	Copper Slag as alternative for River Sand in Concrete.	Dr. T.Ch. Madhavi, Professor and Head	Department of Civil Engineering, SRM University, Chennai- 600089, Tamil Nadu	3 years	5309480
15.	Development and designing of novel zwitterionic foul release coatings with improved nanoscale interface.	Dr. Sanjay K Nayak	Laboratory for Advanced Research in Polymeric Materials (LARPM), Central Institute of Plastics Engineering & Technology (CIPET), Bhubaneswar-751024, Odisha	3 years	7009438
16.	A novel process technology for the treatment of raw textile dyeing effluents.	Dr. K. Perumal, Principal Scientist	Shri AMM Murugappa Chettiar Research Centre (MCRC), Chennai- 600113, Tamil Nadu	2 years	7773036
17.	Design of low speed wind tunnel.	Dr. A.K. Mittal, Principal Scientist	Structural Engineering Group, CSIR-Central Building Research Institute, Roorkee- 247667, Uttarkhand	2 years	2575800

18.	Design and Development of Digital Holographic Camera for Non-Destructive Testing Applications.	Dr. Raj Kumar, Principal Investigator	Optical Devices & Systems Division (V-3) CSIR-Central Scientific Instruments Organisation, Sector- 30, Chandigarh-160030, Punjab	3 years	6991200
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