

2016-17

Instrumentation Development Programme (IDP)

S. No	Project Title	PI Details	Institute	Duration	Total Amount
1.	Technology enablement From Management to Solution For Hearing Impaired.	Prof. (Dr.) Nitin M Nagarkar, Director	AllIMS, Raipur, Chhattisgarh	2 years	3677201
2.	Design & Development of a Novel Multi-Parameter pain monitoring system for children	Dr C Lakshmi Deepika, Associate Professor & Head	PSG College of Technology, Coimbatore, Tamil Nadu	2 years	3029546
3.	Development of Digital Dental Restoration System	Dr. Rashmi Uddanwadiker, Assistant Professor	Visvesvaraya National Institute of Technology (VNIT), Nagpur, Maharashtra	2 years	4152000
4.	Development of a portable instrument for medical image analyzing compression and transmission compatible for CT/MRI loe Slice thickness images	Dr A Lenin Fred	Mar Ephraem College of Engineering and Technology, Elavuvilai, Tamil Nadu	3 years	3438400
5.	Design & Development of Remote ECG Monitoring System for Postoperative and high risk cardiac patients	Dr Maneesha V Ramesh, Director	Amrita Vishwa Vidyapeetham, Kolam, Kerala	2 years	4482000

6.	Design & Development of cost in-situ-intrusive Motor Stethoscope (MSCOPE) for Monitoring the Health of Induction Motor using the Latest art of Instrumentation	G.S. Ayyapan, Sr. Scientist	Central Scientific Instruments Organisation, CSIR, Chennai, Tamil Nadu	3 years	6525450
7.	Development of a Potentiostat system for general purpose electrochemical applications	Prof. Rajib Bandyopadhyay, Professor	Jadavpur University, Kolkata, West Bengal	2 years	2333600
8.	Development of electronic vision & electronic tongue system for estimation of cooking quality (Alkaline Spreading Valve, Amylose Content, Gel Consistency, Elongation ratio) of Rice	Dr Nabarun Bhattacharyya, Professor	Centre for Developing of Advanced Computing, Kolkata, West Bengal	2 years	4361000
9.	Development of a Nano-robotic system capable of automated tip-exchange : A novel tool for nano scale imaging, manipulation and meterology	Mr. G.R Jayanth, Assistant Professor	Indian Institute of Science, Banglore, Karnataka	3 years	3590000
10.	Designing of fabric tensile impact testing machine	Dr. Arunangshu Mukhopadhyay, Professor and Head	Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab	2.5 years	3602600

11.	Design & Development of Low Cost Air Conditioner Efficiency meter (ACE Mater)	Shri Dhirendra Bansal, Scientist In-Charge	Central Scientific Instruments Organisation, CSIR complex, New Delhi	2 years	3670000
12.	Design & fabrication of an instrument to assess the puncture resistance of surgical material by using sharp edged puncture probe/syringe needles	Mr D Veerasubramanian, Scientist officer	The South India Textile Research Association, Coimbatore, Tamil Nadu	2 years	3972000
13.	Smart Meter for measuring power quality disturbances using GSM Technology	Dr K Gnanambal, Professor	K L N College of Engineering, Pottapalayam, Tamil Nadu	3 years	1975800
14.	Development of QCM gas sensors for quality monitoring of agro products.	Mr. Prolay Sharma, Associate Professor	Jadavpur University, Kolkata, West Bengal	2 years	2568960
15.	Design & Development of low cost scalar and vector network analyzers	Prof Girish Kumar, Professor	Indian Institute of Technology, Mumbai, Maharashtra	3 years	4973320
16.	Design & Development of integrated and state-of -the Art Brachytherapy Simulator for Cancer Treatment	Dr. Thayal Singh Elias, Associate Professor	Regional Cancer Centre, Thiruvananthapuram, Kerala	2 years	9190000

17.	Design & Development of Dynamic Yarn Pull Out for high Performance Fabrics	Mr Abhijit Majumdar, Associate Professor	Indian Institute of Technology, Hauz Khas, New Delhi	2.5 years	2294240
18.	Design & Fabrication of computerized dynamic knittability tester for hosiery yarns	Dr. Bhaarathi Dhurai, Professor	Kumarguru College of Technology, Coimbatore, Tamil Nadu	2 years	2375000
19.	Design & Development of an instrument for analyzing performance of fire protective clothing and determining second degree burn time for skin	Prof Apurba Das, Professor	Indian Institute of Technology, Hauz Khas, New Delhi	3 years	2655480
20.	Indigenous Differential scanning calorimeter with LABVIEW Extension	Prof K Venkataraman, Head Dept. of Physics	SCSVMV University, Enathur, Kanchipuram, Tamil Nadu	2 years	1258000
21.	Scanning Kelvin Probe Equipment for Surface and Interface Analyze	Dr. A. Subrahmanyam, Professor	Indian Institute of Technology, Madras, Tami Nadu	2 years	4552680
22.	Design and Development Non Destructive image processing based diagnostic tool for identification of	Dr. Malay Kishore Dutta, Professor and Head	1. Amity University, Noida, Uttar Pradesh	18 Months	3539000

	toxic substances from some common food item		2. CSIR- CSIO, Sector 30-C, Chandigarh 160030		
23.	Development of Micro-Channels Based Personal Cooling System for Fire Fighters	Dr. G. Kumaraguruparan, PhD,	Thiagarajar College of Engineering, Madurai, Tamil Nadu	3 years	3113200
24.	Fabrication of Low Cost Hybrid Technology Based MEMS Acoustic Transducer Using Polyimide Membrane.	Dr. R. Sundar, Professor ECE	Raja Lakshmi Engineering College, Chennai, Tamil Nadu	2 years	3860600
25.	Design and Development of Portable Raman Spectrometer	Prof. S. Umopathy, Chairman and Professor	Indian Institute of Science, Bangalore, Karnataka	3 years	13608850
26.	Surface Plasmon Resonance Instrument	Mr. Raj Kumar Gupta, Assistant Professor	Birla Institute of Technology and Science, Pilani, Rajasthan	2 years	5614919
27.	Validation of Automatic Multiparameter Soil Testing Device (Autora Soil) with Online Data Display	Prof. D.N Singh, Institute Chair Professor	Indian Institute of Technology, Bombay, Maharashtra	18 months	

Waste Management Technologies (WMT)

S. No	Project Title	PI Details	Institute	Duration	Total Amount
1.	Technology Development of Aerated Cement and Concrete with Solid-Waste Utilization.	Dr. Ashok N. Bhaskarwar, Professor	Indian Institute of Technology, Hauz Khas, New Delhi	3 years	7430100
2.	Direct recycling of Polystyrene based waste objects using peel extract for oil spills remediation.	Dr. Chandra Sekhar Sharma, Assistant Professor	Indian Institute of Technology, Hyderabad, Telangana	2 years	3569550
3.	Resource recovery from Waste Electrical and Electrical Equipments (WEEE): Eco-friendly technology for recycling plastics and metallic components.	Dr. Smita Mohanty, Sr. Scientist	Central Institute of Plastics Engineering and Technology(CIPET), Bhubaneswar, Odisha	3 years	35564800
4.	Development of insulating refractories and abrasion resistant ceramics from coal ash.	Prof. Ram Chandra Das, Associate Professor	Govt. college of Engineering & Ceramic Technology, Kolkata, West Bengal	3 years	6152450
5.	PV based cost-effective "Needle-Plate" type ESP in medical wastes incinerator.	Dr. K. Mohana Sundaram, Professor	Dr. Sakunthala Engineering college, Chennai, Tamil Nadu	3 years	2884226

6.	Pilot studies on microwave conversion of eggshell into nanostructured hydroxyapatite for biomedical applications and to design and fabricate continuous flow microwave reactor for scaling up the process.	Dr. E.K Girija, Assistant Professor & Dr. A. Thamizhavel, Associate Professor	Periyar University, Tamil Nadu & Tata Institute of Fundamental Research, Mumbai, Maharashtra	3 years	5410143
7.	Performance and design evaluation of test tracks of flexible pavements with waste materials in sub-base and base layers.	Dr. J.T. Shahu, Professor	1. Indian Institute of Technology, Hauz Khas, New Delhi	3 years	18282000
		Mr. Satyajit Patel	2. SVNIT, Surat, Gujarat		
8.	Development of Chloride free saleable iron oxide from byproducts of Titanium pigment production via Chloride route.	Dr. Prathish K.P. Scientist	National Institute of Interdisciplinary Science & Technology (NIIST-CSIR), Thiruvananthapuram, Kerala	3 years	4161520
9.	Value creation from solid waste: Discarded reverse osmosis membrane elements.	Er. Hiren D Raval, Scientist	Central Salt and Marine chemical research Institute (CSIR-CSMCRI), Bhavnagar, Gujarat	2 years	26942232

10.	Design and Development of technology for safe disposal of hospital waste through electric arc plasma.	Dr. Priyabrata Banerjee, Scientist	Central Mechanical Engineering Research Institute (CSIR-CMERI), Durgapur, West Bengal	3 years	21853200
11.	Use of Industrial waste steel slag in design of Open Graded Asphalt Friction courses.	Dr. Rajan Choudhary, Associate Professor	Indian Institute of Technology, Guwahati, Assam	3 years	9615200
12.	Process development for the recovery of rare earths from the end of life compact fluorescent lamps (CFLs) & Fluorescent Lamps (FLs).	Dr. U. Rambabu, Scientist C	Center for Materials for Electronics Technology (C-MET), Hyderabad, Telangana	3 years	3936384
13.	Design & Development of Hospital waste management Technique for safe disposal of Biomedical waste.	Prof. (Dr) Padma Srikanth, Chairman	Sri Ramachandra University & Medical Centre, Chennai, Tamil Nadu	2 years	13794000
14.	Manufacturing hybrid lightweight, high strength and glossy finish polymeric composites from marble and granite waste stream.	Dr. P. Asokan, Senior Principal Scientist	CSIR- Advanced Materials and Processes Research Institute (AMPRI), Bhopal, Madhya Pradesh	3 years	45026000

15.	Up scaling of Technology for making advanced non-toxic radiation shielding materials of Strategic Importance utilizing Industrial Wastes.	Dr. S.S. Amritphale, Chief Scientist	CSIR- Advanced Materials and Processes Research Institute (AMPRI), Bhopal, Madhya Pradesh	3 years	59531480
16.	Extraction of precious metals from E- waste using chelation technology.	Dr. K.K. Pant, Professor	Indian Institute of Technology, Hauz Khas, New Delhi	3 years	42763200

Advanced Manufacturing Technologies (AMT)

S. No	Project Title	PI Details	Institute	Duration	Total Amount
1.	Alumina based HTCC and LTCC substrates for Hybrid Microelectronic circuits in strategic sector applications.	Dr. Jose James, Chief Scientist	National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram, Kerala	3 years	6139808
2.	Expert system for automation of train toilets sewerage disposal at specified location.	Dr. Ravilla Venkata Krishnaiah, Professor	Institute of Aeronautical Engineering (IARE), Dundigal, Hyderabad, Telangana	3 years	9107000

3.	Surface modified metallic orthopedic implant for sustained drug release.	Dr. Debrupa Lahiri, Assistant Professor	1. Indian Institute of Technology, Roorkee, Uttarakhand,	3 years	9249200
			2. Indian Institute of Technology, Patna, Bihar.		
4.	Cost-effective integration of 20-40V n/p LDMOS devices in SCL's 0.18mm CMOS process.	Dr. Nihar Ranjan Mohaptra, Assistant Professor	Indian Institute of Technology (IIT-G), Ahmedabad, Gujarat	3 years	12823200
5.	Development of a Dual Frequency Microwave system for the processing of polymer composite products.	Dr. Sandhya Rao, Senior Scientist	Centre for Societal Missions & Special Technologies, National Aerospace Laboratories (NAL), Bangalore, Karnataka	3 years	13491800
6.	Development of DLC Anti-Reflective Coating for Infra Red Windows.	Dr. Ankit K, Scientist C	Central Manufacturing Technology Institute (CMTI), Bangalore, Karnataka	2 years	3996000

7.	Development of a Prototype DC Non-Transferred Arc Plasma Reactor for Converting Zircon to Zirconia.	Dr. P.V. Ananthapadmanabhan, Director	PSN College of Engineering and Technology, Tirunelveli, Tamil Nadu	3 years	9366500
8.	Development of Co-deposition electrolyte system for deposition of Binary and Ternary Sn-Ag-Cu based lead-free solder alloys for PCB applications.	Dr. Shany Joseph, Scientist C	Centre for materials for Electronics Technology, Panchwati, Pune, Maharashtra	3 years	6816800
9.	Development of Nanocatalysts for the preferential oxidation of carbon monoxide for practical use in PEM fuel cells.	Dr. Rajararam Bal, Scientist	CSIR-Indian Institute of Petroleum (IIP), Mohkampur, Dehradun, Uttarakhand	3 years	24469600
10.	Design and Development of proper bonding mechanism for individual AAC block units in wall system of a structure.	Dr. Uday S. Dixit, Professor	Indian Institute of Technology, Guwahati, Assam	3 years	4098352

11.	Technology Development for 600V normally-OFF Gallium Nitride Transistor for reliable power electronic systems.	Dr. Mayank Shrivastava, Assistant Professor	Indian Institute of Science (IISc), Bangalore, Karnataka	3 years	102243000
12.	Development of Black Zinc-Nickel Coating as replacement to Cadmium coating used in Aerospace and Defense Applications.	Dr. S.P. Kumaresh Babu, Associate Professor	National Institute of Technology (NIT), Tiruchirappalli, Tamil Nadu	2 years	1712040
13.	Ordered open-cell and auxetic foam multifunctional heat exchangers enabled by additive manufacturing.	Dr. Shankar krishnan, Associate Professor	Indian Institute of Technology (IIT-B), Mumbai, Maharashtra	3 years	6522170
14.	Additive manufacturing system based on micro mechanical inhibition for 3D printing of metals and plastics.	Dr. T. Rangaswamy, Professor and Head	Govt. Engineering College, Hasan, Karnataka	3 years	5009600

15.	Development of low frequency noise control sheet absorber: A biomimetic solution.	Dr. B. Venkatesham, Assistant Professor	Indian Institute of Technology, Hyderabad, Kandi, Telangana	3 years	8076800
16.	Development of composite filament for light weight 3D printed components .	Dr. Mrityunjay Doddamani, Assistant Professor	National Institute of Technology Karnataka (NITK), Mangalore, Karnataka	3 years	3303622
17.	Developing a prototype of a smart Superconducting Fault Current Limiter (SCFCLsm) with three dimensional field and current mapping technology for early fault and hot spot detection.	Prof. Satyajit Banerjee, Professor	Indian Institute of Technology (IIT), Kanpur, Uttar Pradesh	3 years	13026000
18.	Generating Functional Quality Textured Surfaces using Electrical Discharge machining for medical machining applications.	Dr. Subas S. Joshi, Rahul Bajaj Chair Professor	Dept. of Mechanical Engineering, IIT- Bombay, Powai, Mumbai- 400 076, Maharashtra.	3 years	7316800

19.	Flexible tactile sensors for robotics and biomedical applications.	Dr. Dipti Gupta, Assistant Professor	Metallurgical Engineering and Material Science, Indian Institute of Technology (IIT) Bombay, Powai, Mumbai-400 076, Maharashtra.	3 years	5100000
20.	Development of in-line monitoring of composite manufacturing process using laser scanning technology.	Mr. Ramesh Kumar M, Senior Principal Scientist	Advanced Composite Division, CSIR-National Aerospace Laboratories, PB 1779, old Airport Road, Kodihalli, Bangalore-560017, Karnataka	3 years	13858000
21.	Technology Development of Recycling of Aluminium Alloys for Industrial applications.	Dr. C. Bhagyanathan, Asst. Professor	1. Dept. of Manufacturing Engineering, Sri Rama Krishna Engineering College (SREC), Coimbatore, Tamil Nadu AND	2 years	11832912
			2. National Institute of Interdisciplinary Science & Technology (NIIST-CSIR), Thiruvananthapuram- 695019, Kerala.		
22.	Development of a programmable robotic motion phantom for the quality assurance of respiratory motion management techniques in radiation therapy.	Prof. Ashish Dutta	1. Dept. of Mechanical Engineering, IIT-Kanpur, Kanpur 208 016, Uttar Pradesh	2 years	3397500
			2. Dept. of Radiotherapy, Sanjay Gandhi Postgraduate Institute of Medical Sciences (SGPIMS), Raebareilly Road, Lucknow- 226 014, Uttar Pradesh		

23.	Next Generation, Cutting-Edge Indigenous EUVL Resist Technology for Semi conductor Industry.	Dr. Satinder Kumar Sharma, Assistant Professor	School of Computing & Electrical Engineering, Indian Institute of Technology (IIT)-Mandi, Mandi-175001, Himachal Pradesh	3 years	9186760
24.	Agarose based wound dressings.	Dr. Vivek Verma, Associate Professor	1. (A) Department of Material science & Engineering, Indian Institute of Technology (IIT)-Kanpur, Kanpur-208016, Uttar Pradesh (B) Department of Biological sciences & Bioengineering, Indian Institute of Technology (IIT)-Kanpur, Kanpur-208016, Uttar Pradesh	3 years	26545765
			2. Department of Metallurgical and Material Engineering Indian Institute of Technology (IIT-M) Madras, Chennai-600036, Tamil Nadu		
25.	Development of Novel Electro floatation/ Electrocoagulation Enhanced Membrane Module for oily waste water treatment.	Dr. Chiranjib Bhattacharjee, Professor	Dept. of Chemical Engineering, Jadavpur University, Kolkata-700 032, West Bengal	3 years	3511300

26.	Development of damage tolerant composite structures using robotic z-pinning technology for aircraft applications.	Dr. Kotresh M Gaddikeri, Principal Scientist	Advanced composites division, National Aerospace Laboratories (CSIR-NAL) Kodihalli, Bangalore	3 years	19897600
27.	Development and Manufacturing of metallic Flow field Plates by hydroforming method for PEM Fuel cells.	Dr. N.Rajalakshmi, Senior Scientist	International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), IITM Research Park, 11 Floor- 6 Kanagam Road, Taramani, Chennai-600113, Tamil Nadu.	3 years	56010536
28.	Development of laser surface texturing technology for automotive applications.	Dr. Ravi Bathe, Scientist-E	International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), Balapur P.O., Hyderabad-560005, Telangana.	3 years	20753600
29.	Femtosecond laser pulses for ultra-precision manufacturing of soft and hard materials (FsPUSH).	Dr Sivarama Krishnan, Assistant Professor	Department of Physics, Indian Institute of Technology (IIT-Madras), Chennai-600036, Tamil Nadu.	3 years	34916800
30.	Design and Development of Electrohydrodynamic Ink Jet Printing System.	Dr. Naresh Chandra Murmu, Principal Scientist & Head	1. Surface Engineering and Tribology Division, Central Mechanical Engineering Research Institute (CMERI), Durgapur-713209, West Bengal	3 years	11683700

			AND		
31.			2. Department of Mechanical Engineering, National Institute of Technology(NIT),Mahatma Gandhi Avenue, Durgapur-713209, West Bengal.		
	SMART foundry 2020 (SMART= Sustainable Metal casting using Advance Research and Technology).	Dr. S.Savithri, Sr.Principal Scientist	1. National Institute for Interdisciplinary Science & Technology (NIIST),Pappanam code Industrial Estate Thiruvananthapuram - 695 019, Kerala.	3 years	95015160
32.		Dr. Nagahanumaiah, Sr.Principal	2. Micro Systems Technology Laboratory , CSIR-Central Mechanical Engineering Research Institute (CMERI),M.G.Avenue, Durgapur-713 209, West Bengal		
		Dr. A.M.Kuthe,Professor	3. Mechanical Engineering Department, Visvesvaraya National Institute of Technology (VNIT), Nagpur- 440 010 Maharashtra		

		Dr. Goutam Sutradhar, Professor	4. Mechanical Engineering Department, Jadavpur University , Kolkata-700 032, West Bengal.		
33.	Pilot scale level Technology development for fermentative production of Pullulan, an industrially important biopolymer.	Dr. G S Prasad, Chief Scientist	Microbial Type Culture Collection Centre (MTCC), CSIR-Institute of Microbial Technology (IMTECH), Sector 39-A, Chandigarh- 160036, Punjab	2 years	9779240
34.	In- Situ Robotic Restoration System based on Laser Cladding.	Prof. Ramesh Singh, Associate Professor	Dept. of Mechanical Engineering, IIT-Bombay, Powai, Mumbai- 400 076, Maharashtra.	3 years	21792500
35.	Sticky re-usable adhesive pad for variety of applications.	Dr. Animangsu Ghatak, Professor	Dept. of Chemical Engineering, IIT-Kanpur, Kanpur 208 016, Uttar Pradesh.	3 years	6726500
36.	Nanoencapsulation of herbal extracts using sonochemical	Dr. S. Prabhakaran, Scientist	Central Scientific Instruments Organisation (CSIO), CSIR Madras Complex, Taramani, Chennai-600 113, Tamil Nadu.	2 years	3250690

	technique.				
37.	Continuous Flow Manufacturing of Functional Nanoscale Materials.	Dr. Amol A Kulkarni, Scientist	CSIR National Chemical Laboratory (NCL), Dr. Homi Bhabha Road, Pashan, Pune-411008, Maharashtra	3 years	35118300
38.	Integration and Enablement of 0.18micron RF-SOI Technology for Analog Mixed-signal Application.	Dr Abhisek Dixit, Assistant Professor	1. Department of Electrical Engineering Indian Institute of Technology (IIT)-Delhi, Hauz Khas, New Delhi-110016	3 years	35146440
			2. Dept. of Electrical Engineering, Indian Institute of Technology (IIT)-Kanpur, Kanpur, Uttar Pradesh		
39.	Design and Development of automated flexible abrasive flow finishing (AF-AFF) process for finishing of micro to macro complex features.	Dr M. Ravi Sankar, Assistant Professor	1. Department of Mechanical Engineering, Indian Institute of Technology (IIT)-Guwahati, Guwahati-208 016, Assam.	3 years	9537000
			2. Department of Mechanical Engineering, Indian Institute of Technology (IIT)-Delhi, Hauz Khas, New Delhi-110016		
40.	Development of a machine for making large low-cost prototypes using layered object manufacturi	Dr. Sathyan Subbiah, Associate Professor	Dept. of Mechanical Engineering, (IIT-M) Madras, Chennai- 600 036, Tamil Nadu	2 years	6414300

	ng (LOM) method.				
41.	Development of a Multi-Functional Railway Track Scavenging Vehicle.	Dr. Sharad K.Pradhan, Associate Professor	Department of Meehanical Engineering National Institute of Technical Teachers Training and Research (NITTTR), Bhopal-462002, Madhya Pradesh.	2 years	5151600
42.	Development of a Replicative, Rapid, Net Shape Manufacturing Process for Precision Glass Optics.	Dr. Dipayan Sanyal, Chief Scientist	CSIR-Central Glass & Ceramic Research Institute (CGCRI), 196 Raja S.C. Mullick Road, Kolkata 700032, West Bengal.	3 years	175024896

Technology Development Programmes (TDP)

S. No	Project Title	PI Details	Institute	Duration	Total Amount
1.	Smart Magnetorheological (MR) damper for Enhancement of Seismic Resistance of Structures.	Dr. G. Hemlatha, Head of Department	School of Civil Engineering, KITS University, Coimbatore- 641114, Tamil Nadu	3 years	25751600
2.	Enhanced Source Separation Tool for Interrogating Neurological (Seizures) Disorders.	Dr. S. Thomas George, Assistant Professor & Head	ECE Department, Karunya University, Coimbatore- 641114, Tamil Nadu	2 years	4700000
3.	Electric-Field Assisted Lithography and Direct Patterning of Standalone Structures at Multiple Length-Scales.	Dr. Praveen Kumar, Assistant Professor	Dept. of Materials Engineering, Indian Institute of Science, Bangalore- 560012 Karnataka	3 years	40418400
4.	Design and Development of small organ Imaging Gamma Camera system.	Prof. S. Siva Sankara Sai, Dean	Department of Physics, Sri Sathya Sai Institute of Higher Learning, PN Campus, Vidyagiri, Prasanthi Nilayam, Andhra Pradesh -515134	3 years	9067600
5.	Advanced CNC Micromachining System with Integrated Micro-Tool manufacturing.	Dr. Sunil Jha, Associate Professor	Indian Institute of Technology (IIT-D), Hauz Khas, New Delhi-110016	3 years	31743619
6.	Development of Hybrid Photocatalytic Membrane Bioreactor for Textile Wastewater	Dr. Keerthi, Assistant Professor	Department of Chemistry CEG Campus, Anna University, Chennai- 600 025, Tamil Nadu	3 years	3503194

	Treatment.				
7.	Effect of Interfacial Gaps in FRP strengthened structural Components: An experimental/Numerical Study.	Dr. Biswanath Banerjee, Assistant Professor	Indian Institute of Technology, Kharagpur 721302, West Bengal	3 years	14875041
8.	Design and Development of small organ Imaging Gamma Camera system.	Mr. Swachchha Majumdar, Principal Scientist	Ceramic Membrane Division CSIR-Central Glass & Ceramic Research Institute 196 Raja S.C.MullickRoad,Kolkata700032	3 years	56203300
9.	Multi model Microscope: Field Trails (Phase 2).	Dr. Sai Muthakumar V, Assistant Professor	Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam Campus, Vidyagiri, Prasanthi Nilayam, Ananthapur District, Andhra Pradesh-515134	18 Months	3437189
10.	Development, Testing and Optimization of MRF dampers.	Dr. K V Ramana, Professor	Dept. of Mechanical Engineering, K L University, Green Fields, Vaddeswaram, Guntur-522502, Andhra Pradesh	3 years	15592792
11.	Development of Ceramic Membrane based Process for Treatment and Recycling of Textile Effluent	Dr. Sourja Ghosh, Scientist	1. CSIR-Central Glass and Ceramic Research Institute, (CSIR-CGCRI) Kolkata- 700010, West Bengal	3 years	8933102

	towards Zero Discharge Concept.		2. Dept. of Chemical Engineering, Indian Institute of Technology (IIT-G), Guwahati-781039, Assam		
12.	Development and Demonstration of Dense Ceramic Membrane-based Technology for Separation of Hydrogen and Oxygen Gases.	Dr. Rajendra N Basu, Chief Scientist	1. CSIR-Central Glass and Ceramic Research Institute, (CSIR-CGCRI) Kolkata 700032, West Bengal	3 years	11996790
		Dr. Swadesh Kumar Pratihari, Associate Professor	2. Dept. of Ceramic Engineering, National Institute of Technology (NIT), Rourkela 769008, Orissa		
13.	Development of CO ₂ -Selective Ceramic Membrane for Separation of CO ₂ from Flue Gas and Natural gas.	Prof. Saikat Maitra, Professor and Officer in charge	Govt. College of Engineering & Ceramic Technology, Kolkata-700010, West Bengal	3 years	11340450
14.	Development of Microwave Sensor System for Humanitarian Technology Applications.	Dr.-Ing. M. Jaleel Akhtar, Associate Professor	Indian Institute of Technology (IIT-K), Kanpur, Uttar Pradesh-208016	3 years	5591690
15.	Bioelectric toilet: A novel approach for treatment of human waste and generating onsite electricity for lighting toilets.	Prof. M. M. Ghangrekar, Professor	Indian Institute of Technology, Kharagpur- 721302, West Bengal	3 years	3594360

16.	Design, Development and implementation of Precast Bamboo Reinforced Concrete Members for Cost Effective Housing.	Dr.Damodar Maity Professor	Department of Civil EngineerIng Indian Institute of Technology (IIT-KGP), Kharagpur-721302 West Bengal	3 years	6322004
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