

List
of
New Projects
Sanctioned
During the financial year
2012-2013
Under
Technology systems Development PRogramme
(TSDP)
DST

New Projects sanctioned during 2012-2013

Sl. No	Dated of Issue of Sanction/	Total Cost/ Duration	File No.	Project Title	Name & Address of PI
1.	25.6.2012	Rs.23,89,400/- (24 months)	DST/TSG/T C/2011/24	Microbiological and Nanotechnological Intervention in Traditional Crafts to Enhance Quality, and Marketing to Meet Contemporary Demands.	Dr. A.J.A. Ranjit Singh Head Department of Advanced Zoology and Biotechnology Sri Paramakalyani College Alwarkurichi-627 412 Tamil Nadu
2.	25.6.2012	Rs.1,77,66,400/ (36 months)	DST/TSG/ STS/2011/ 46	Development of warrants for the use of modified binders for improved performance of flexible pavements.	Dr. A. Veeraragavan Professor Department of Civil Engineering Indian Institute of Technology-Madras (IIT-M), Chennai - 600 036.Tamil Nadu.
3.	25.6.2012	Rs. 13,14,960/- (24 months)	DST/TSG/ STS/2011/ 72	Analysis and Modelling of Risk for Tunnel projects.	Prof. J. Durgaprasad Professor Department of Civil Engineering Gyan Ganga College of Technology Tilwara Ghat, Bargi Hills Jabalpur – 482 005.Madhya Pradesh.
4.	25.6.2012	Rs. 66,02,950/- (36 months)	DST/TSG/S TS/2011/39	Guidelines for the use of Geo-cells in flexible pavements.	Prof. G.L. Sivakumar Babu Professor Department of Civil Engineering and Centre for Infrastructure, Sustainable Transportation and Urban Planning (CiSTUP) Indian Institute of Science (IISc.) Bangalore – 560 012.Karnataka.
5.	25.6.2012	Rs. 31,71,200/- (24 months)	DST/TSG/ Ceramic/20 11/135	Development of High Strength Insulating Castables for Hot Face Applications.	Dr. S. Manisha Vidyavathy Assistant Professor Department of Ceramic

					Technology A.C. College of Technology Campus Anna University, Chennai – 600 025 Tamil Nadu
6.	25.6.2012	Rs. 1,18,60,000/- (36 months)	DST/TSG/ STS/2011/ 41	Segmental composite slabs for bridge decks.	Dr. K. Ramanjaneyulu Deputy Director & Head Bridge Engineering Group CSIR-Structural Engineering Research Centre CSIR-Campus, Taramani Chennai – 600 113.Tamil Nadu
7.	25.6.2012	Rs. 22,37,306/- (24 months)	DST/TSG/ STS/2011/ 78	Restrained earth structures for sustainable infrastructure.	Dr. Balunaini Umashankar Assistant Professor Department of Civil Engineering Indian Institute of Technology, Hyderabad Ordnance Factory Estate Yeddumailaaram – 502 205, Andhra Pradesh.
8.	12.7.2012	Rs.45,41,90 0/- (36 months)	DST/TSG/ NTS/2011/ 149	Development of diagnostic and therapeutic protocols for various ophthalmic affections in veterinary practice.	Dr. S.K. Mahajan Associate Professor Department of Veterinary Surgery & Radiology College of Veterinary Sciences Guru Angad Dev Veterinary & Animal Science University Ludhiana – 141 004.
9.	12.7.2012	Rs. 61,10,000/- (36 months)	DST/TSG/N TS/2010/61 (36 months)	Development of Microbial Fuel Cell for Direct Electricity Recovery During Wastewater Treatment	Dr. Makarand M. Ghangrekar Associate Professor Department of Civil Engineering Indian Institute of Technology (IIT) Kharagpur – 721 302, West Bengal.
10.	12.7.2012	Rs. 36,73,102/- (24 months)	DST/TSG/A F/2011/69	Experiments and modeling for system- wide control of biodiesel engines and after treatment	Dr. Preeti Aghalayam Associate Professor Department of Chemical Engineering, Indian Institute of Technolo

				systems	Madras (IIT-M) Chennai-600 036
11.	13.7.2012	Rs. 30,00,800/- (24 months)	DST/TSG/ PT/2011/20 4	Avian single chain monoclonal antibodies technique for analysis of contaminants in food and environmental samples.	Dr. H.K. Manonmani, Principal Scientist, Fermentation Technology and Bioengineering Department, Central Food Technological Research Institute (CFTRI) Mysore-570 020
12.	13.7.2012	Rs. 14,90,880/- (24 months)	DST/TSG/ NTS/2011/ 173	Biometric Based Unique Key Generation for Authentic Digital Watermarking.	Dr. Malay Kishore Dutta Professor Department of Electronics & Communication Engineering Amity School of Engineering & Technology, Amity University, Sector – 125, Gautam Buddha Nagar Noida – 201 303, Uttar Pradesh.
13.	24.7.2012	Rs. 32,51,000/- (36 months)	DST/TSG/ NTS/2011/ 186	Design and Development of Biodegradable Polymers from Renewable Agricultural Resources.	Dr. M. Sukumar Assistant Professor Centre for Biotechnology A.C. Tech. Campus, Anna University Chennai – 600 025, Tamilnadu.
14.	24.7.2012	Rs. 14,75,340/- (24 months)	DST/TSG/ NTS/2011/ 114	Ethernet Hardware for Automobile Applications.	Dr. Gerardine Immaculate Marry Assistant Professor(Sr.) School of Electronics Engineering Vellore Institute of Technology (VIT), Old Katpadi, Vellore – 632 014, Tamil Nadu
15	28.7.2012	Rs. 29,10,000/- (36 months)	DST/TSG/P T/2011/170	Development of 3-Dimensional Diffuse Optical Tomographic System.	Prof. K. Rajan, Associate Professor, Department of Physics, Indian Institute of Science (IISc.), Bangalore-560 012, Karnataka
16.	8.8.2012	Rs. 50,32,400/- (24 months)	DST/TSG/ NTS/2011/ 151	Synthesis of calcium sulphate pigment from industrial waste and its utilization in paper industry.	Dr. Sunil Kumar, Research Scientist, Thapar Centre for Industrial Research & Development (TCIRD) Paper Mill Campus

					Yamuna Nagar – 135 001, Haryana.
17.	7.8.2012	Rs. 30,65,400/- (24 months)	DST/TSG/ PT/2011/17 7	Development of optical invasive detection of pH and dissolved oxygen in bioreactors.	Dr. A. Balaji Ganesh, Professor, Opto-Electronic Sensor Research Laboratory, TIFAC-Core, Velammal Engineering College, Surapet, Chennai-600 066, Tamil Nadu
18.	7.8.2012	Rs. 45,58,000/- (36 months)	DST/TSG/ NTS/2011/ 119	Development of novel lignin and silica degrading microbial consortium for enhancing paddy straw digestibility and biogas generation.	Dr.(Mrs.) Urmila Gupta Phutela Scientist (Biogas) School of Energy Studies for Agriculture College of Agricultural Engineering and Technology Punjab Agricultural University, Ludhiana – 141 004, Punjab.
19.	8.8.2012	Rs. 34,70,000/- (24 months)	DST/TSG/ AF/2011/1 52	Studies of Thumba (Citrullus Colocyntis) Seed Oil on Engine Performance, Combustion and Exhaust Emission Characteristics.	Prof. M.P. Poonia, Professor, Department of Mechanical Engineering Malaviya National Institute of Technology (MNIT), Jawahar Lal Nehru Marg, Jaipur – 302 017, Rajasthan.
20.	8.8.2012	Rs. 70,40,800/- (24 months)	DST/TSG/ PT/2011/20 2	Scale up production process of Bacteriorhodopsin (br) protein from Halobacterium by batch culture.	Dr. V.P. Savalgi, Associate Professor, University of Agricultural Sciences (UAS), Department of Agricultural Microbiology, Krishinagar, Dharwad-580 005, Karnataka
21.	13.8.2012	Rs. 92,36,700/- (36 months)	DST/TSG/ Ceramic/20 11/143	Development of nano-Carbon containing magnesia carbon refractories.	Dr. Ritwik Sarkar, Department of Ceramic Engineering, National Institute of Technology (NIT), Rourkela – 769 008, Orissa.
22.	13.8.2012	Rs. 26,27,240/- (24 months)	DST/TSG/ AF/2011/5 0	Characterization of evaporation and burning rates of neat and blended biodiesel fuels of Indian origin.	Dr. Pramod S. Mehta, Professor Internal Engine Combustion Laboratory, Department of Mechanical Engineering, Indian Institute of

					Technology-Madras (IIT-M) Chennai-600 036, Tamilnadu
23.	13.8.2012	Rs. 1,22,39,200 /- (30 months)	DST/TSG/FF/2011/172	Design and Development of CNC Magnetorheological Finishing (MRF) system	Dr. Sunil Jha, Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology (IIT), Hauz Khas, New Delhi- 110 016.
24.	14.8.2012	Rs. 39,62,200/- (24 months)	DST/TSG/Ceramic/2011/134	Development of high temperature and high thermal shock resistant cardierite body for higher duty applications in ceramic industries.	Dr. P. Manohar, Department of Ceramic Engineering, A.C. Tech. Campus, Anna University Chennai – 600 025, Tamilnadu.
25.	22.8.2012	Rs. 2,85,66,405/- (30 months)	DST/TSG/FF/2011/161	Ferro Fluids: Science and Technology Application	Dr. R.V.Upadhyay, Professor, Charotar University of Science & Technology, (CHARUSAT), P.D.Patel Institute of Applied Sciences & K.C.Patel R&D Centre, Education Campus, Changa- 388 421, Anand, Gujarat
26.	22.8.2012	Rs. 98,20,480/- (30 months)	DST/TSG/FF/2011/188	Exploration of ferrofluids for magneto-rheological finishing in advanced optical systems with strategic applications	Shri. Prabhat Kumar Baghel, Scientist-C , Optical Instrumentation Unit, V-3, Central Scientific Instruments Organization (CSIO), Sector-30, Chandigarh- 160 030, Punjab
27.	22.8.2012	Rs. 38,10,000/- (36 months)	DST/TSG/PT/2011/192	Quantum dots based hybrid-organic-inorganic light emitting diodes.	Dr. Kanchan Saxena, Professor, Amity Institute of Advanced Research and Studies (AIARS) (M&D) , Amity University, Sector-125, Noida-201 303, Uttar Pradesh
28.	22.8.2012	Rs. 33,59,893/-	DST/TSG/AF/2011/1	Study of performance, combustion and	Prof. Tapan Kumar Gogoi, Associate Professor,

		(24 months)	56	emission characteristics of a turbocharged diesel engine fuelled with some Indigenous Tree Seed based Bio-Diesel (ITSBD) available in North-Eastern region of India.	Department of Mechanical Engineering, Tezpur University, NapaamTezpur - 784 028, Assam.
29.	24.8.2012	Rs. 1,01,29,600/- (30 months)	DST/TSG/ FF/2011/18 3	Development of solar power generator using rare-earth magnets and ferro fluids	Dr. Abhishek V Verma, Lecturer, Amity Institute of Renewable and Alternative Energy(AIRAE), Amity University, Sector-125, Noida- 201 303, Uttar Pradesh
30.	12.9.2012	Rs. 11,45,520/- (12 months)	DST/TSG/ Ceramic/20 11/128	Development of Optically Transparent Cerium and Praseodymium Doped Lutetium Aluminum Garnet and Lutetium orthosilicate Nanoceramic Scintillators for Radiation Detection and Medical Imaging Applications.	Dr. J. Senthil Selvan Assistant Professor Department of Nuclear Physics University of Madras Guindy Campus Chennai – 600 025 Tamil Nadu
31.	26.9.2012	Rs. 27,00,000/- (18 months)	DST/TSG/ PT/2011/17 8	Cadmium free high semiconductors based core-shell nanocrystals as nanoprobe for bio-imaging applications.	Dr. A. Vadivel Murugan, Associate Professor, Centre for Nanoscience and Technology, Madanjeet School of Green Energy Technologies, Pondicherry University, R.V. Nagar, Kalapet, Puducherry-605 014
32.	4.10.2012	Rs. 34,40,000/- (24 months)	DST/TSG/ PT/2011/19 5	Development of intelligent optical biochemical sensor using optical fiber gratings.	Dr. Vivekanand Mishra, Associate Professor, Department Electronics Engineering, Sardar Vallabhbai National Institute of Technology (SVNIT), Ichchhanath, Surat-395 007, Gujarat
33.	5.10.2012	Rs.	DST/TSG/	Exploration of ferro	Shri. Harry Garg,

		1,13,85,800/- (30 months)	FF/2011/18 7	fluids for strategic applications: Athermalization in advanced optical systems	Scientist-C, Optical Instrumentation Unit, V-3, Central Scientific Instruments Organization (CSIO), Sector-30, Chandigarh- 160 030, Punjab.
34.	8.10.2012	Rs. 3,57,95,684/- (30 months)	DST/TSG/ FF/2011/19 1	Preparation and Characterization of Ferro-Fluids for Energy Conversion Application	Dr. R.P.Pant, Scientist-F & Head, Room No. 25, EPR Spectroscopy Sector, National Physical Laboratory (NPL), New Delhi- 110 012
35.	2.11.2012	Rs. 30,91,600/- (24 months)	DST/TSG/ PT/2011/19 7	Development of electrochemical based biosensor for detection of lymphatic filarial parasite, Wuchereria bancrofti, in vectors.	Dr. S.L. Hoti, Dy. Director & Head, Microbiology & Immunology Unit, Vector Control Research Centre (VCRC), Medical Complex, Indira Nagar, Pudhucherry-605 006
36.	14.11.2012	Rs. 4,41,56,800/- (48 months)	DST/TSG/ Ceramic/20 10/32	Development of LTCC materials for general purpose applications.	Dr. Girish J. Phatak, Scientist, Centre for Materials for Electronics Technology (C-MET), Panchawati, Off Pashan Road, Pune – 411 008, Maharashtra.
37.	14.11.2012	Rs. 30,20,000/- (36 months)	DST/TSG/ PT/2011/17 9	Demonstration of energy storage prototype hybrid supercapacitor device using nano hybrid materials.	Dr. S. Palaniappan, Principal Scientist, Polymers & Functional Materials Division, Indian Institute of Chemical Technology (IICT), Tarnaka, Hyderabad-500 007, Andhra Pradesh
38.	14.11.2012	Rs. 29,12,400/- (36 months)	DST/TSG/ PT/2012/02	Design and development of multimodal optical microscope using fourier optical image processing.	Dr. S. Siva Sankara Sai, Head, Department of Physics, Sri Sathya Sai Institute of Higher Learning (SSSIHL) Prasanthi Nilayam Campus, Vidhyagiri, Prasanthi Nilayam-515 134 Anantapur Distt., Andhra Pradesh

39.	11.12.2012	Rs. 1,10,13,700/- (24 months)	DST/TSG/ AF/2012/0 4	Development of bio-gas and bio-diesel dual fuel engine for Rural India	Dr. Chaitanya Sampara, Director (R&D), K S R M College of Engineering, Kadapa – 516 003, Andhra Pradesh
40.	28.12.2012	Rs. 18,74,250/- (36 months)	DST/TSG/ AF/2012/0 1	Physico-chemical analysis of various biodiesel from different bioenergy crops	Dr. P. Nagendra Prasad, Department of Biomedical Engineering, Noorul Islam Centre for Higher Education, Noorul Islam University, Kumaracoil-629 180, Tamil Nadu.
41.	14.01.2013	Rs. 1,57,48,000/- (36 months)	DST/TSG/ AF/2011/1 44	HCCI/PCCI combustion in a single cylinder research engine using biodiesel	Dr. Avinash Kumar Agarwal, Department of Mechanical Engineering, Indian Institute of Technology (IIT), Kanpur- 209 016, Uttar Pradesh.
42.	14.01.2013	Rs. 1,29,89,600/- (36 months)	DST/TSG/ NTS/2011/ 167	Holistic Approach for Commercial Processing of Fruits and Vegetables Grown in Western Maharashtra.	Prof. Smita S. Lele Professor & Head Department of Biochemical Engineering Food Engineering and Technical Department Institute of Chemical Technology (ICT) Nathalal Parekh Marg, Matunga Mumbai – 400 019, Maharashtra.
43.	14.01.2013	Rs. 34,98,000/- (36 months)	DST/TSG/ AF/2011/1 48	Characterization and Utilization of selected, Deoiled Cake as Adsorbents in Textile Wastewater Treatment.	Dr. Ashutosh Das Professor and Director Centre for Environmental Engineering PRIST Univesity, Ponnaiyah Ramajayam Institute of Science & Technology Thanjavur – 613 403, Tamil Nadu.