

Technology System Programme 2007-2008

Sl. No	File No.	Project Title	Name & Address of Investigator/Institute	Duration (Years)	Total Cost (Rs)
Subject Area :- Alternate Fuel					
	DST/TSG/AF/2006/21	Indegenous resource utilization : development of Direct-Ethanol-Vegitable oil hybrid fuel blends and field testing in commercial transport vehicles.	Dr. R. Subramanium, CIRT, Erode	2	20,70,000
	DST/TSG/AF/2007/47	Development of process for recovery of gasoline range hydrocarbons from waste plastics.	Dr. R.K. Singh, Dept of Chemical Engineering, NIT, Rourkela.	2	29,92,000-
	DST/TSG/AF/2007/50	Catholytic separation of carbon di oxide from raw biogas through selective adsorption process over special masoporous materials for development of green technology.	Dr. V. Vishwanathan, Scientist E-II, Cytalytic and Physical Chemistry Division, Indian Institute of Chemical Technology (IICT) Uppal Road Taranaka Hyderabad- 500 007.	2	19,94,000
	DST/TSG/AF/2007/51	Biodiesel production from hydrocarbon yeilding plants	Dr. P.S. Sha Valli Khan, Dept. of Botany, Yogi vemanna University, Kadapa (A.P.)	2	22,52,413
	DST/TSG/AF/2007/48	Bioethanol production for alternative fuel from seleted Lignocellulostic raw materials using their thermotolerance yeists.	Prof. L. Venkateshwar Rao, Dept. of Microbiology, Osmania University, Hyderabad.	3	37,44,000
	DST/TSG/AF/2007/05	Technology Development and optimization for bioethanol production from potato and petha waste.	Dr. Seema Bhadoria, Dept. of Botany, Raja Balwant Singh College, Agra.	2	41,31,200

	DST/TSG/AF/2006/22	Study of the factors affecting the long term oxidation stability of jatropa and pongamia biodiesel.	Dr. S. Vasanth Kumar, Dept. Of Chemistry, Karunya Institute of Technology and Sciences, Coimbatore.	3	27,28,000
	DST/TSG/AF/2007/10	Screening of indogeneous tree borne oils as potential raw materials for the preparation of biodiesel	Dr. R. B. N. Prasad, Deputy Director & Head, Lipid Science & Technology Division, Indian Institute of Chemical Technology (IICT) Uppal Road Taranaka Hyderabad- 500 007.	2	Rs.16,46,000/-
	DST/TSG/AF/2007/55	Study of toxic constituents of Jatropa curcas (Oil, Oilcake and biodiesel)	Dr. S.N. Naik., Centre for Rural Development and Technology, IIT, Delhi.	1	Rs.31,34,000/-

Subject Area : Water Purification					
	DST/TSG/WP/2006/24	Replication for defluoridation plants for fluoride effected areas of Andhra Pradesh	Dr. S. Sridhar, IICT, Hyderabad.	1.5	29,52,000
	DST/TSG/WP/2007/08	Technology development of liquid phase adsorption of mercury using low-cost adsorbent for better management of industrial waste.	Dr. Susmita Dutta, Department of Chemical Engineering, National Institute of Technology (NIT), Durgapur.	3	7,50,000
	DST/TSG/WP/2007/43	“Development of reactors using palladium immobilized on bacterial cellulose for remediation of water contaminated with pentachlorophenol and lower chlorinated phenols”	Dr. Sumathi Suresh, Professor, Centre for Environmental Science and Engineering, Indian Institute of Technology (IIT), Powai, Mumbai – 400 076.	3	30,85,200
	DST/TSG/WP/2006/58	Technology Development of biodegradable additives and performance evaluation of biodegradable with various plastics.	Dr. Shalendra Kumar Sharma, Dy. Director, Central Institute of Plastics Engineering & Technology (CIPET), Guindy, Chennai.	2	27,88,400
	DST/TSG/WP/2006/45	Engineered Biofiber hybrid composites: opportunities & challenges for environmental sustainability & high performance applications.	Prof. (Dr.) Sanjay K. Nayak, Director General, Central Institute of Plastics Engineering & Technology (CIPET), TVK Industrial Estate, Guindy, Chennai – 600 032, Tamil Nadu.	2	22,89,200

	DST/TSG/WP/2007/14	Integrated Arsenic and Iron removal from contaminated ground water	Dr. Robin Kumar Dutta, Department of Chemical Sciences, Tezpur University, Napaam, Tezpur-784 028, Assam.	3	12,73,200
	DST/TSG/WP/2007/19	Microbial ensilation and Co-fermentation of shell wastes for recovery of biopolymer.	Dr. Stanlay Abraham L., Scientist-C, Centre for Ocean Research, Satyabhama University, Chennai, Tamil Nadu.	2	16,98,600
	DST/TSG/WP/2006/28	Development and applications of hydrolyzed and unhydrolyzed polyacrylamidegrafted tamarind kernel powder (TKP) as flocculants for waste water treatment	Dr. Sagar Pal, Lecturer, Department of Applied Chemistry, Birla Institute of Technology, (BIT), MESARA – 835 215, Ranchi, Jharkhand.	2	8,10,120
	DST/TSG/WP/2007/07	Optimal rehabilitation and expansion of water distribution network.	Dr. T.R Neelkantan, Professor, SASHTRA University, Thanjavur.	2	8,10,120

Subject Area : Traditional Crafts					
	DST/TSG/TC/2006/62	Eco-friendly and User friendly machines for Hank Processing Cottage Industry.	Dr. N.D. Mahatre, BTRA, Mumbai	2	20,90,000

Subject Area: NTS					
	DST/TSG/NTS/2006/28	Development of rare earth Permanent Motor Steeper Motor	Shri S.H. Chetwani, Sr. Engineer, Electrical Research and Development Association (ERDA), PB No: 760, ERDA Road, Makarpura Industrial Estates, Vadodara – 390010, Gujrat.	2	25,82,400

Subject Area : Ceramic					
	DST/TSG/Ceramic/2006/75	Development studies on the energy saving low mass kiln furniture with higher life for use pottery industries in Ahmedabad region.	Dr.S.N. Mishra, Scientist, CGCRI, Naroda Centre, Ahmedabad	2	16,28,000
	DST/TSG/Ceramic/2006/64	Development of Originally modified nanaoclay from prestine benonite of Indian origin and studies on its comparability in various polymer systems.	Dr. S. Ghatak, Scientist, CGCRI, Kolkata	3	46,56,000
	DST/TSG/Ceramic/2006/32	Development of manufacturing technology of SAILON cutting tools.	Dr. S. Bandyopadhyay, Scientist CGCRI, Kolkata.	2	4,77,60,000
	DST/TSG/Ceramic/2006/39	Development of	Prof. L.M.	2	32,80,000

		Carbon-Ceramic Composites for friction and wear applications	Manoch, Sardar Patel University, Vallabhvidhya nagar		
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Subject Area : Platform Technologies					
	DST/TSG/PT/2007/06	Feasibility Study for Development of Electronic Nose Technology	Dr. RDS Yadava, BHU, Varanasi..	2	24,24,000
	DST/TSG/PT/2006/73	Capacitance and Conductance based sensor instrumentation for Biochemical Characterization	Prof. J. Kumar, Anna University, Chennai.	2	13,55,040
	DST/TSG/PT/2006/50	Infrared Spectroscopic study for tumor diagnosis	Dr. Ranjana Mahrotra, NPL, New Delhi	3	39,18,000
	DST/TSG/PT/2006/53	Instrumentation for Bacterial Antibioqram	Dr. K. Sankran, Anna University, Chennai	2	30,36,000
	DST/TSG/PT/2006/74	Fabrication of Planar Optical Waveguides by Embossing of Oxide films for use as Optical Sensors.	Dr. S.K. Bhadra, Scientist CGCRI, Kolkata.	3	33,49,000
	DST/TSG/PT/2006/59	Development of a parasite detection instrument using fluorascence and image processing.	Dr. Kota Srinavas, CSIO, Chennai & Dr. P. Kaliraj, Anna University, Chennai.	2	25,61,400

	DST/TSG/PT/2006/63	Development of DNA Methylation detection KU and associated instrumentation for healthcare application.	Dr. Mahammad Jaffar Ali, Anna University, Chennai.	3	33,80,800
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DST/TSG/ME/2006/1	Development of Electrolytical methods for pesticides analysis.	Dr. M. Chandrashekhara, CECRI, Karaikudi, T.N.	3	16,90,560
DST/TSG/ME/2007/07	Design and development of bacteriorhodospin based optical filters for processing medical images.	Dr. S. Siva Shankar Sai, Sri Satya Sai Institute of Higher Learning, Prasanthinilayam.	2	16,80,000
DST/TSG/PT/2006/51	DNA based diagnostics using capacitance monitoring.	Dr. Ch. Mohan Rao, Deputy Director, Centre for Cellular and Molecular Biology (CCMB), Uppal Road, Hyderabad.	2	25,36,795
DST/TSG/PT/2006/54	Development of microelectrode arrays for electrochemical applications.	Dr. R. Srinivasan, Scientist, CECRI, Karaikudi and Dr. Amitava Dasgupta, IIT-M, Chennai.	2	44,05,360
DST/TSG/ME/2007/05	Feasibility study of polymer-organosilicon nanocomposites for oral drug delivery systems related to colon disease.	Dr. Monika Dutta, Dept. of Chemistry, Delhi University, Delhi.	2	26,60,000
DST/TSG/ME/2007/44	Electrochemical studies of modified carbon nanotube microfiber electrode based sensor for the detection of adenosine concentration by using fast scan cyclic voltametry	Dr. B.E. Kumaraswamy, Dept. of PG Studies and Research in Industrial Chemistry, Kuvempu University, Shankaraghatta, Shimoga District, Karnataka.	2	23,32,000
DST/TSG/ME/2007/06	Development of DNA Biosensor : Phase-II	Dr. B.D. Malhotra, Scientist, National Physical Laboratory (NPL), Dr. K.S. Krishnan Marg, Pusa, New Delhi.	3	23,32,000
DST/TSG/ME/2007/09	Development of conducting polymer rechargeable	Dr. M. Paramshivam, Scientist, Central Electrochemical	2	18,04,800

		battery for consumer applications.	Research Institute , Karaikudi.		
	DST/PT/ME/2007/12	Development of nanotechnology based alternative detection systems for lymphatic filarial parasitewichercia bancrofti in vectors.	Dr. S.L. Hoti, VCRC, Pondicherry & Dr. H.N. Vasan , IISc, Bangalore.	2	34,00,200