

Project List for the Year 2010-11

| S. No | File No | Title | PI and Address | Duration | Total Cost |
|--------------|------------------------|---|--|-----------------|-------------------|
| 1 | IDP/IND/16/2009 | Commercialization of developed Table-top Light Fastness testing equipment | Dr. Manisha Mathur, The Synthetic & Art Silk Mills' Research Association, SASMIRA, Mumbai | 18 | 27, 13,800/- |
| 2 | IDP/IND/2010/03 | Real time evaluation of X-Ray Imaging Based Mango Sorting System and optimization of system performance | Dr. R. Govindraj, Scientist, Central Electronics Engineering Research Institute (CEERI), Chennai Centre, CSIR Madras Complex, Taramani, Chennai – 600 113 | 4 | 8, 39,000/- |
| 3 | IDP/IND/14/2009 | Design and development of a computerized instrument for measurement of fabric feel by nozzle extraction | Dr. Apurba Das, Associate Professor, Department of Textile Technology, Indian Institute of Technology (IIT) Hauz Khas, New Delhi-110 016 | 30 | 26, 68,000/- |
| 4 | IDP/IND/02/2009 | Development of an Intelligent Recognizer for Component Analysis of Manhole Gas Mixture | Dr. Paramarth Dutta, Department of Computer & system Sciences, Visva-Bharati University, Santiniketan-731 235, District – Birbhum, West Bengal | 24 | 33, 45,420/- |
| 5 | IDP/IND/04/2010 | Development of online image processing system for finding size distribution of pellets in a pelletization plant | Mr. Santosh Kumar Behera, Process Engineering & Instrumentation Cell, Institute of Minerals and Materials Technology, Bhubaneswar, Orissa-751013 | 30 | 35, 90,200/- |
| 6 | IDP/IND/07/2010 | Design and Fabrication of SOI MEMS Capacitive Accelerometer | Prof. Siddhartha Sen, Department of Electrical Engineering, Indian Institute of Technology, Kharagpur, West Bengal | 24 | 31, 61,600/- |
| 7 | IDP/IND/15/2009 | Development of automated Assay unit for Anti-Mitotic Activities | Dr. N. V. Chalpathi Rao, Centre for Electronics Design & Technology, Indian Institute of Science, (IISc), Bangalore-560 012 | 24 | 27, 30,300/- |
| 8 | IDP/IND/12/2010 | Development of Surface Plasmon Resonance Instrument with a Novel Optical Design | Dr. Raj Kumar Gupta, Assistant Professor, Physics Group, FD-III, Birla Institute of Technology and Science, BITS – Pilani, Pilani – | 36 | 25, 66,000/- |

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| | | | 333031, Rajasthan | | |
| 9 | IDP/Med/04/2010 | Design & Development of Health and Physical Fitness Monitor | Dr. Dr. P. V. Mohanram, Professor and Head of Department, Mechanical Engineering, PSG College of Technology, Coimbatore, Peelamedu, Coimbatore – 641004, Tamilnadu | 24 | 58, 22,200/- |
| 10 | IDP/Med/04/2009 | Feasibility Studies on Carbon Nanotubes/Ultrahigh Molecular Weight Polyethylene Nano-composites for Total Joint Replacements | Dr. S. Kanagraj, Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology, Guwahati, North Guwahati -781 039, Assam | 18 | 24, 64,350/- |
| 11 | IDP/Med/07/2010 | Design, Fabrication and Testing of Low Power Analog Front-End Chip for Heart Rate Detection | Dr. Roy Paily Palathinkal, Associate Professor, Department of Electronics and Communication Engineering, Indian Institute of Technology, Guwahati, North Guwahati -781 039, Assam | 30 | 19, 98,900/- |
| 12 | IDP/Med/06/2010 | An Embedded Low Cost Portable CW Doppler Ultrasonography System | Dr. Swapna Banerjee, Professor, Department of Electronics & Electrical Communication Engg, Indian Institute of Technology, Kharagpur-721302, West Bengal | 36 | 24, 79,800/- |
| 13 | IDP/Med/09/2010 | Design and Development of Wireless Sensor Based Communication for Multichannel EEG Recording | Dr. Subha Rani, Professor & Head, Dept. of Electronics & Communication Engineering, PSG College of Technology, Coimbatore, Peelamedu, Coimbatore – 641004, Tamilnadu | 24 | 21, 64,600/- |
| 14 | IDP/Med/05/2010 | Design and Development of Low Cost Wireless Polysomnograph | Dr A Kandaswamy, Professor & Head, Biomedical Engineering Department, PSG College of Technology, Coimbatore, Peelamedu, Coimbatore – 641004, Tamilnadu | 24 | 27, 96,800/- |
| 15 | IDP/Med/11/2010 | Feasibility study and development of Autonomous Cancerous Cell detection in Pap smear using cellular level electrical response | Dr. Ashutosh Mishra, Assistant Professor, Center for Bio Medical Engineering, Indian | 24 | 25, 10,100/- |

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| | | characteristics | Institute of Technology, Delhi, New Delhi-110016 | | |
| 16 | IDP/Med/08/2010 | Sara Nadi “Novel-Non Invasive Scientific Diagnostic Approach based on correlation of Nasal Cycle Rhythm with Three Radial Pulses | Shri.E.Muthu Kumaran M.E.,(Ph.D), MBMESI, Assistant Professor – Dept. of Electronics & Communication Engg., SCAD College of Engineering and Technology, Cheranmahadevi, Tirunelveli District, Tamil Nadu - 627 414 | 36 | 37,16,454/- |
| 18 | IDP/Med/10/2010 | Indigenous development of 1µm swept source optical coherence (SSOCT) tomography setup for biomedical imaging of animal eye | Dr. Raju Poddar, Assistant Professor, Birla Institute of Technology, Mesra, Ranchi- 835215, Jharkhand | 24 | 24, 51,200/- |
| 19 | IDP/Med/02/2010 | Healthy and Safe Home based on Wireless Sensor System for Elderly People | Dr. Chirasree Roy Chaudhuri Assistant Professor Department of Electronics and Telecommunication Engineering, Centre of Excellence for green energy and sensor systems Bengal Engineering and Science University, Shibpur Howrah-711103, West Bengal | 24 | 23, 50,000/- |
| 20 | IDP/IND/12/2010 | Development of surface plasmon resonance instrument with a novel optical design | Dr. R. K. Gupta Assistant Professor Birla Institute of Technology and Science (BITS) - Pilani Pilani-333031, Rajasthan | 36 | 25.66 |
| 21 | IDP/IND/05/2010 | Design and development of Programmable Control of LPG based Industrial Oven | Mr. Gautam Malik, Assistant Professor, Department of Mechanical Engineering, Chitkara Institute of Engineering & Technology, Chandigarh-Patiala National Highway, Teh. Rajpura, Distt., Patiala, Punjab -140401 | 30 | 29, 44,000/- |
| 22 | IDP/Med/01/2010 | Development of Sol-Gel Based Sensor for Early Diagnosis of Oral Cancer | Dr. Bhaskar Mohan Murari, Assistant Professor (Senior), Centre for Biomedical Research, Vellore Institute of | 24 | 23, 78,000/- |

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| | | | Technology, Vellore, Tamilnadu-632014 | | |
| 23 | IDP/IND/15/2009 | Development of automated Assay unit for Anti-mitotic activities | Dr.N.V. Chalpathi Rao Indian Institute of Science Centre for Electronics Design & Technology Bangalore- 560012, Karnataka | 24 | 27, 30,300/- |
| 24 | IDP/Med Hub/2009-10/3 | Establishing national hub for healthcare instrumentation development | Prof. K. Sankaran, Director, Center for Biotechnology Anna University, Chennai- 600025 Tamilnadu | 60 | 12,40,40,800/- |