

International S&T Cooperation Project List 2005-2006

S. No.	Project Title	P.I. Name & Address	Total Amount	Duration
1	Best Available Techniques Application From Mine Wastes Management	Dr. Amit Rai, Building Materials & Technology Promotion Council, New Delhi	Rs. 1,21,200	2 years
2	Low Cost Technology For High Efficiency Silicon Solar Cell	Dr. P.K. Singh, Scientist EII, Electronic Materials Division, National Physical Laboratory, New Delhi & Prof. P. Vitinov, Central Laboratory of Solar Energy & New Energy Sources, Sofia, Bulgaria	Rs. 1,74,000	2 years
3	Effect Of Nanostructuring On Election States In Amorphous Chalcogenides	Dr. K.S. sangunni, Department of Physics, Indian Institute of Science, Bangalore	Rs. 2,14,600	2 years
4	Development Of The Strategies For Overcoming The Multi Durg Resistance In Pathogenic Fungi	Prof. Rajendra Prasad Jawaharlal Nehru University, New Delhi	Rs. 3,87,400	2 years
5	US India Cooperativer Research Multi Channel Wireless LAN For Rapid Depolyment	Shri Vasant Avaghde, Group Coordinator, Networking and Internet Software Group, Centre for Development of Advanced Computing, Pune	Rs. 6,40,000	2 years
6	Studies Of Uncultured Marine Microbial Diversity Using Bio-Molecule Signature Analysis And Meta-Genomic Libraries	Dr. Yogesh S. Shouche, National Center for Cell Sciences, Ganeshkhind, PUNE-411007	Rs. 2,12,400	2 years
7	Pulsed Laser Deposition And Characterization Of Doped And Undoped Semiconductor Metaloxide Thin Films For Gas Sensing Application	Dr. Avinashi Kapoor, Department of Electronic Science, University of Delhi, South Campus, Benito Juarez Road, New Delhi	Rs. 3,64,000	3 years
8	Vanadia-Titania Based Catalysts For Vapor Phase Oxidations Using Molecular Oxygen	Dr. D. Srinivas, Sr. Scientist, Catalysis Division, National Chemical Laboratory, Pune-411 008	Rs. 3,63,000	2 years
9	Design And Characterization Of Novel Nano-Sized Metal Oxide Catalysts For Preferential Oxidation Of Co For Fuel Cell And Other Applications	Dr. B. M. Reddy Sr. Scientist Inorganic & Physical Chemistry, Indian Institute of Chemical Technology (IICT) Hyderabad	Rs. 2,281,000	2 years
10	Role Of Cell-Cycle Genes In Segment-Specific Cell Fate Determination In The Embryonic Central Nervous System Of Drosophila	Dr. L.S. Sashidhara, Center for Cellular & Molecular Biology, Uppal Road, Hyderabad - 500 007	Rs. 2,52,400	2 years
11	Study Of Electronic Structures Of Highly Strained Metallacycles	Dr. E.D. Jemmis, Department of Inorganic and physical Chemistry, Indian Institute of Science, Bangalore – 560012	Rs. 2,97,000	2 years
12	Thermal Hydraulic Model Development And Validation For Natural Circulation Systems	Dr. D. Saha, Bhabha Atomic Research Centre, Reactor Engineering Division, Hall No. 7, Trombay, Mumbai-400085	Rs. 3,13,500	3 years

13	Realistic Site-Specific Hazard Assessment For Mega-Cities Utilizing Modeling Techniques	Dr. Imtiyaz Ahmed Parvez, Scientist, CSIR Center for Mathematical Modelling & Computer Simulation, Bangalore- 560 037	Rs. 6,96,000	3 years
14	Giant Magneto-Impedance In Amorphous And Nanocrystalline Soft Magnetic Thin Films For Sensor Applications	Dr. S.N. Kane, Devi Ahilya University, Khandwa Road, Campus, Indore – 452 017	Rs. 5,19,900	3 years
15	Cry Stallographic Studies On M. Tuberculosis Chorismate Mutase	Dr. Amit Sharma, Group Lead, Structural Biology Group, International Centre For Genetic Engineering & Biotechnology (ICGEB), JNU Campus, Aruna Asaf Ali Marg, New Delhi	Rs. 1,00,000	2 years
16	Study Of The Local Structure Of Rare Earth Ions In Nanocrystals By XAFS	Sh. Pushpal Ghosh, Sol-Gen Division, Central Glass & Ceramic Research institute, 196 Raja S.C. Mullik Road, Jadavpur, Kolkata – 700 032	Rs. 1,00,000	2 years
17	Adaptive Mixed Finite Element Methods And Applications	Dr. Amiya Kumar Pani, Department of Mathematics, Indian Institute of Technology, Powai, Mumbai – 400 076	Rs. 6,12,000	2 years
18	Development Of A Systematic Decision Support System For The Sustainable Use Of Pesticides In Himachal Pradesh	Dr. Chitra Sood, scientist Centre for Geo informatics Research and Training, COBS, CSK Himachal Pradesh Krishi Vishvavidyalaya, Palampur – 176 062	Rs. 1,72,916	3 years
19	Computer Simulations Of Confined Liquid Crystal	Dr. V.S.S. Sastry, School of Physics, University of Hyderabad, Hyderabad	Rs. 5,01,300	3 years
20	Investigations Of The Photo-Stimulated Phenomena In Liquid Crystals	Dr. S. Krishna Prasad, centre for Liquid Crystal Research, Bangalore	Rs. 3,55,200	3 years
21	Geometric Query-Retrieval Problems On Aggregated Data	Prof. Prosenjit Gupta, international institute of information Technology, Hyderabad	Rs. 3,57,200	3 years
22	Spectroscopic Investigation Of Dip Pen Nanolithography Pattern	Prof. C.N.R. Rao, Jawaharlal Nehru Centre for advanced Scientific Research, Bangalore	Rs. 5,35,500	3 years
23	Constrained Cluster Glycosides: Syntheses, Structures And Lectin Binding Studies	Dr. N. Jayaraman, Assistant Professor, Department of Organic Chemistry, Indian Institute of Science, Bangalore	Rs. 3,57,600	2 years
24	Development And Characterization Of Polymer Particulate Nanocomposites	Dr. P. Venkitanarayanan, Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology, Kanpur	Rs. 5,74,500	3 years
25	Development Of High Performance Multilayer Chip Inductors	Dr. S.S. Suryavanshi, Reader Department Of Electronic Science, Solapur University, Solapur	Rs. 2,14,600	3 years

26	Neotectonic Vs. Climatic Control N River Dynamics And Landscape Evolution During The Late Plesitocene Holocene Comparison Of The Koros Basin (Hungary) And The Ganga Yamuna Plains Himalayan Foreland (India)	Dr. Rajiv Sinha, Asso. Professor, Department Of Civil Engineering, Indian Institute Of Technology, Kanpur	Rs. 2,86,000	2 years
27	Effect Of Local Environment On Catalytic Activity	Dr. Shobhana Narasimhan, Assistant Professor, Theoretical Sciences Unit , Jawaharlal Nehru Centre For Advanced Scientific Research Bangalore	Rs. 4,61,400	3 years
28	Design Of Supramolecular Sustems And Nanostructures For The Development Of New Lumiescent Materials: Synthesis And Study Of Light Induced Properties	Dr. K.Geroge Thomas, Photosciences and Photonics Group, Regional research Laboratory, Trivandum	Rs. 3,43,434	3 years
29	Seismic Vulnerability Iof Historic Centres In India	Pro. A. Meher Prasad, Department of Civil Engineering, Indian institute of Technology, Chennai	Rs.3,62,316	3 years
30	Investigation Of Stone Deteriorating Microbial Strains And Application Bioremeddiating Microbial Agents On Indian Altered Stone Mounuments	Dr. Seema Bhaduria, Reader(Microbiology), RBS College, Agra	Rs.1,33,000	2 years
31	Assessment Of Bioerosion Of Exposed Surfaces Of Monuments And Hypogea And Development Of Preventive Strategies For Their Conservation	Dr. S.P. Adhikary, Utkal University, Bhubaneshwar	Rs.5,13,420	3 years
32	Nanocellulose Fibre Reinforced Natural Rubber Based Nanocposites	Prof. Sabu Thoms, school of Chemical sciences, mahatma Gandhi University, Kotratayam	Rs. 5,30,700	3 years
33	Antioxidant Activity Of Phenolics Extracts From Plant Material	Dr. L. Pari, Annamalai University, Tamil Nadu	Rs. 1,41,506	2 years
34	Mapping Of Subsurface Geo-Electric Structure To Assess Geothermal Potential Of Bulgaria Using Magneto–Telluric Studies	Dr. T. Harinarayana, Head, Magnetotelluric Group, National Geophysical Research Institute, Hyderabad	Rs. 2,49,600	2 years
35	Micro& Nanomanipulation Devices For Cell And Sub Cellular Studies: Study, Realization And Experiment On Nano & Micro Systems For In-Situ Controlled Drug Delivery	Pro. Rakesh Kumar, Professor In Physics And Nanotechnology, Ch. Charan Sing University, Meerut	Rs. 5,36,900	2 years
36	Development Of Micro Structures Using Sr Based X-Ray Lithography	Dr. R.V. Nandedkar, Head Synchrotron Utilization Division, Centre For Advanced Technology, Indore	Rs. 2,77,000	3 years
37	Implementation Of A High Pressure Beamline At Elettra	Dr. B.K. godwal, Head, High pressure physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai	Rs. 3,54,400	3 years
38	Metal, Metal Oxide Nanoparticles And Rare-Earth Ions Doped Nanocomposite Glassy Films For Application In Optical Devices And Sensors	Dr. Goutam De, Central Glass & Ceramic Reasearch Institute, Kolkata	Rs. 4,58,120	3 years

39	Characterization Of Brain Tumors Using Advanced MR Imaging Techniques	Prof. A.K. Gupta, Sree Chitra Tirunal Institute For Medical Sciences And Technology, Thiruvananthapuram	Rs. 3,14,400	3 years
40	Investigation Of The Evolution Of Clusters, Galaxy Groups And Active Galaxies Using Low Radio-Frequency Instruments	Dr. Prajval Shastri, Indian Institute Of Astrophysics, Bangalore.	Rs. 4,05,750	3 years
41	Probiotics For Food Preservation, Functional Foods As Vaccine And Vector For Delivery Systems	Dr. Renu Agarwal, Food Microbiology Department, Central Food Technological Research Institute (cftri), Mysore	Rs. 3,63,000	3 years
42	Studies On Parasitic Crustaceans Infesting On Fishes: Use Of Morphological And Molecular Techniques In Species Identificaton	Dr. G. Anil Kumar, Head, PG Department Of Zoology & Research Centre, Sree Narayana Colloge, Kannur, Kerala	Rs. 4,52,000	2 years
43	Reconstruction Of Past Changes In Productivity Of Arbian Sea	Dr. Syed Waith Ahmad Naqvi, Scientist, National Institute Of Oceanography, Goa	Rs. 5,13,900	3 years
44	Interaction Between Endotoxin And Peptides And Proteins For Better Insight Into The Mechanism And Treatment Of Sepsis	Prof. A. Surolia, Molecular Biophysics Unit, Indian institute of science, Bangalore	Rs. 1,79,600	2 years
45	Preparation, Characterization And Photo-Catalytic Activity Test Of Nanostructured Tio2 Based Photocatalysts For Disinfections Of Crude Water For Drinking Water Production	Dr. M. Subramanyam, Catalysis and Physical chemistry Division, Indian institute of Chemical Technology, Hyderabad.	Rs. 4,80,000	3 years
46	Crystal Growth And Characterization Of Electronic Materials For Nanoscience And Technology And Spintronics	Prof. J. Kumar, Crystal Growth Centre, Anna University, Chennai	Rs. 2,25,063	3 years
47	Positron Double-Beta-Decay Processes An Study Of Some Fundamental Problems In Neutrino Physics	Dr.P.K. Raina, Associate Professor, Department Of Physics And Meteorology, Indian Institute Of Technology, Kharagpur	Rs. 4,15,800	3 years
48	Spectroscopy Of Atoms In Exotic Environments II	Prof. P.K. mukherjee, Indian Association for cultivation of Science, Kolkata	Rs. 3,42,000	3 years
49	Crowd Analysis And Simulation	Dr. S. Banerjee, Department of Computer Science & Engineering, Indian Institute Technology, Hauz Khas, New Delhi-100 016	Rs. 9,19,800	2 years
50	Transcription Terminator Rho From Mycobacterium Tuberculosis	Dr. V. Nagaraj, Department of Microbiology and Cell Biology, Indian Institute of Science, Bangalore-560012	Rs. 13,18,800	2 years

51	Identification of Common Mechanisms Of Transcriptional Dysregulation In Neurodegenerative Disorders	Dr. Beena Pillai, Institute of Genomics And Integrative Biology, Delhi University Campus, Mall Road, New Delhi-110007	Rs. 17,59,800	2 years
52	Network Optimization For Genomic Data Analysis And Wireless System Design	Prof. Kalyanmoy Deb, Mechanical Engg. Deptt. Indian institute of Technology Kanpur, Kanpur-208016	Rs. 10,33,200	2 years
53	Investigation Of Metal Doped Amorphous Chalcogenides For Application In Electronics	Prof. K.S. sangunni, Indian institute of science, Bangalore	Rs. 3,14,152	3 years
54	Routing And Addressing Sensor Networks: A Novel Field	Dr. Pavan Huggehalli, center for Electronics Design & Technology, Indian institute of science, Bangalore-560012	Rs. 9,19,800	2 years
55	Development Of Active Prosthetic Limbs For Physically Challenged Persons Using Robotic Technology	Dr. G.C. Nandi, Indian Institute Of Information Technology	Rs. 98,000	2 years
56	Games In System Design And Verification	Dr. Pallab Dasgupta, Department Of Computer Science & Engineering, Indian Institute Of Technology, Kharagpur	Rs. 8,44,200	2 years
57	Quantitative Analysis Of In Vivo Magnetic Resonance Imaging Data For Diagnostics Of Vascular Diseases Supported By Computational Fluid Dynamics Simulations	Prof. A.W. Date, Mech Engg. Deptt., Indian Institute Of Technology Bombay, Powai, Mumbai-400 076	Rs. 9,19,800	2 years
58	Isolation, Characterization And Mutagenesis Of Long Range Acting Bacterial Transcription Regulators With Receptor Domains For Aromatic Compounds	Prof. Rup Lal Department Of Zoology University Of Delhi Delhi-110007	Rs. 8,62,000	2 years
59	R&D on Speciality Optical Fibres and Fiber based components for Optical Communication	Dr. Bishnu P.Pal, IIT, Delhi, CGCRI, Kolkatta, IIT Roorkee	Rs.26, 40,000	4 years
60	Development of Crop Yield using remote Sensing and GIS for cooperation with Poland	Dr. Ramesh P. Singh, Prof. Department of Civil Engineering, IIT, Kanpur	Rs.2,53,800	3 years
61	Formation of metallic nano-structures in organic matrix by vapor and plasma phase deposition and its modification by ion irradiation	Dr. D. K. Awasthi, Materials Science Division, Nuclear Science Center, Aruna Asaf Ali Road, new delhi-110067	Rs. 11,76,000	2 years
62	Key word spotting in continuous speech	Dr. S.R. Mahadeva Prasanna, IIT, Guwahati-781 039	Rs.10,33,200	2 years
63	Plenoptic function rendering, coding and video-streaming	Prof. U.B. Desai, EE Deptt., Indian Institute Of Technology Bombay, Powai, Mumbai-400 076	Rs.10,33,200	2 years
64	Kernel methods for speech and video Sequence analysis	Prof. Chiranjib Bhattacharyas, Department of Computer Science & Automation, Indian Institute of Science, Bangalore-560012	Rs. 9,19,800	2 years

65	MEMS Composite Porous Silicon/Silicon cantilevers for Ultrasensitive Biosensing Applications	Dr. Enakshi Bhattacharys, IIT, Madras	Rs.6,79,000	2 years
66	Structural characterization of the Caldendrin/MaGuk interaction	Dr. Yogendra Sharma, Center for Cellular & Molecular Biology (CCMB), Hyderabad-50007	Rs. 266000	2 years
67	Studies Of Sperm Specific Genes Related With Infertility: Basis For The Rationale Design Of Novel Fertility Control Molecule(S)	Dr. Anil Suri, Staff scientist, National Institute of Immunology, New Delhi	Rs.10,91,200	3 years
68	The Fabrication Of Novel Biomaterial In The Nanoscale By Peptideself-Assembly “Indo Israel S&T Cooperation Progarmme”	Dr. Sandeep Verma Indian Institute Of Technology	Rs.3,71,808	2 years
69	High Performance Wireless And Wireline Networking Systems and Subsystems	Prof. D. Manjunath, Associate Professor Department Of Electrical Engineering, Indian Institute Of Technology, Mumbai	Rs.3,12,000	3 years
70	Solid-State Dye-Sensitized Solar Cells Based On Nanostructured Zinc Oxide Films	Prof. R.M. Mehra, Department Of Electronic Science, University Of Delhi, South Campus, New Delhi	Rs.5,25,000	2 years
71	Studies on planktonic diversity in saline and fresh water systems-field experiment and modeling	Dr. Joydev Chattopadhyay, Indian statistical institute, Kolkata	Rs.4,29,000	3 years