

International Division
List of approved projects during year 2009-10

Sl. No	File No.	Title	Indian Coordinator	Amount Sanctioned In Rs.	Duration
Partner Country: Russia					
1.	INT/RFBR/P-33 08-06-09	Plasmonic heterostructures with novel optical phenomena	Dr. A. Venu Gopal, Reader (F), TIFR, Homi Bhabha Road, Mumbai - 400005	11,95,800/-	2 Years
2.	INT/RFBR/P-34 08-06-09	Comparison of fluid circulation processes in granite intrusion-related environments: development of models for economic evaluation of granite-related hydrothermal processes.	Dr.M. S. Pandian, Professor and Head, Department of Earth Sciences, Pondicherry University, Puducherry-605014	7,40,800/-	2 Years
3.	INT/RFBR/P-35 08-06-09	Studies of Bulk and Nano-structures of III-V and II-VI Compounds: Ion-beam Synthesis and Modification	Prof Anand P Pathak School of Physics Univ. of Hyderabad, Hyderabad 500 046	17,93,600/-	2 Years
4.	INT/RFBR/P-36 08-06-09	Measurements of high order ($x > 2$) cross sections of (n, xn) reactions of Uranium , Thorium and other nuclear materials using spallation neutrons	Dr. V. Kumar, Professor, High Energy Nuclear Physics, Laboratory (ADS Program), Department of Physics, University of Rajasthan, Jaipur	4,79,600/-	2 Years
5.	INT/RFBR/P-37 23-07-09	Theoretical and Experimental Investigation of a possibility to use Sn-124 in modern double beta decay experiments	Dr. Prabhu Krishan Raina, Professor, Department of Physics & Meteorology, I.I.T. Kharagpur,	16,05,800/-	2 Years
6.	INT/RFBR/P-38 13-07-09	Multi wavelength observations and modeling of transient events and waves in the solar atmosphere.	Dr. AK Srivastava, Scientist 'B' Aryabhata Research Institute of Observational Sciences (ARIES), Nainital 263 129	5,13,200/-	2 Years
7.	INT/RFBR/P-39 23-07-09	Synthesis of Nanocrystalline Thermoluminescent Phosphors for their application in dosimetry of heavy charged particles and electromagnetic radiation	Dr. Anant Pandey, Lecturer, Department of Physics, Sri Venkateswara College, University of Delhi, New Delhi-110021	19,76,640/-	2 Years

8.	INT/RFBR/P-40 13-07-09	Investigation of Galactic disc structure	Dr. Ramakant Singh Yadav Aryabhata Research Observ. Sciences (ARIES) Nainital 263 129	3,73,800/-	2 Years
9.	INT/RFBR/P-41 13-07-09	Study of Complex properties of the Giant Radio Galaxies (GRGs)	Dr. Mahendra Singh, Scientist-D, Aryabhata Research Observ. Sciences (ARIES) Nainital 263 129	3,73,800/-	2 Years
10.	INT/RFBR/P-42 18-06-09	Synthesis, Crystal Structure and Magnetic phase diagram of Novel Rare earth Intermetallic Compounds and their Functional Property Studies	Dr. R. Nirmala, Assistant Professor, Department of Physics, Indian Institute of Technology Madras, Chennai 600 036	11,20,540/-	2 Years
11.	INT/RFBR/P-43 03-07-09	Impact of Climate Change (including extreme weather conditions) Induced Stress on Health in India and Russia	Dr. T. Chakrabarti, Acting Director, National Environmental Engineering Research Institute (NEERI), Nagpur-440020	19,02,760/-	2 Years
12.	INT/RFBR/P-44 25-06-09	Origin and dispersion of Indo-Europeans: phylogeography of R1a1 Y-chromosomal lineage	Prof. R.N.K. Bamezai Professor & Coordinator National Centre of Applied Human Genetics, School of Life Sciences, Jawaharlal Nehru University, New Delhi – 110067.	12,14,200/-	2 Years
13.	INT/RFBR/P-45 15-10-09	Studies on enhancement of thermal conductivity and fracture toughness of Ceramics matrix composites through incorporation of Carbon Nanotubes	Dr. L.M.Manocha Professor and Head Department of Materials Science & Sardar Patel University Vallabh Vidyanagar – 388120	27,14,880/-	2 Years
14.	INT/RFBR/P-46 23-07-09	Study of mechanisms of NO action on acid sensitive ion channels	Dr. Amal Kanti Bera, Assistant Professor Department of Biotechnology, Indian Institute of Technology Madras, Chennai	19,08,240/-	2 Years
15.	INT/RFBR/P-47 19-06-09	Photonic-crystal fiber supercontinuum sources and frequency converters for stimulated Raman spectroscopy	Prof. S. Umapathy, Professor Dept of Inorganic and Physical Chemistry, Indian Institute of Science Bangalore- 560012	15,36,800/-	2 Years

16.	INT/RFBR/P-48 19-06-09	Spatial Modeling of Human Faces for Real Time Analysis and Classification	Dr. B H Shekar, Reader, Department of Computer Science, Mangalore University, Mangalore	14,62,280/-	2 Years
17.	INT/RFBR/P-49 25-06-09	Effect of disorder and inclusions on transport and magnetic properties of dilute magnetic semiconductors	Dr. Vikram Tripathi, Reader (F), Dept. of Theoretical Physics, Tata Institute of Fundamental Research, Mumbai – 400005	7,84,100/-	2 Years
18.	INT/RFBR/P-50 25-06-09	Study of extracellular fibrillar biopolymers - natural silk fibres, silk protein scaffolds and proteoglycan fibril of both mucus and extracellular matrix of tissue	Prof. SC Kundu, Professor Department of Biotechnology Indian Institute of Technology, Kharagpur IIT-Kharagpur - 721302,	15,25,480/-	2 Years
19.	INT/RFBR/P-51 13-07-09	Study of Optical, Mechanical and Electrical Properties of Low-defect Epitaxial Wide Band Gap Semiconductors on SiC/Si	Dr. Anirban Mitra, Assistant Professor, Dept of Physics, I.I.T-Roorkee, -247667,	9,82,100/-	2 Years
20.	INT/RFBR/P-52 13-07-09	Stability of structure and magnetic properties of nanostructured alloys produced by rapid solidification technique	Dr. Ashis Panda, Scientist 'C', National Metallurgical Laboratory, Jamshedpur – 831007	7,79,400/-	2 Years
21.	INT/RFBR/P-53 25-06-09	Study of source processes, site response and seismic hazard using the local broadband and strong motion data bases that of the 2001 Bhuj earthquake sequence, Gujarat, India, including the available worldwide data on strong seismicity	Dr. Prantik Mandal, Scientist – E-II, Room. No. 242, Extn. Bldg., N.G.R.I. (CSIR), Hyderabad-500007,	11,05,200/-	2 Years
22.	INT/RFBR/P-54 30-07-09	Numerical and experimental investigations of dynamic characteristics, shape changing and vibrations control of smart structures with piezomaterials	Dr. B. K. Mishra, Professor, Department of Mechanical & Industrial Engineering, Indian Institute of Technology Roorkee, Roorkee – 247667	9,50,800/-	2 Years

23.	INT/RFBR/P-55 03-07-09	Cenomanian-Turonian planktic protists, biotic and abiotic events and their relationship: A Comparative Joint study of Indo-Russian Cretaceous Deposits	Dr. R. Venkatachalapathy, Reader, Dept. of Geology, Periyar University, Salem-636 011	15,87,560/-	2 Years
24.	INT/RFBR/P-56 02-09-09	Taxonomic Review of Oriental Anurans (Ranids and Rhacophorids).	Prof. S.K. Dutta, Department of Zoology, North Orissa University, Takatpur, Baripada	16,95,280/-	2 Years
25.	INT/RFBR/P-57 13-07-09	Methods for compensation and localization of interferences in ultra wideband wireless sensor networks	Dr Shirshu Varma, Lecturer Indian Institute of Information Technology, (IIIT), Allahabad	25,03,960/-	2 Years
26.	INT/RFBR/P-58 13-07-09	Role of surface and organic matrix on the vibrational and electronic properties of nanocrystals synthesized by Langmuir Blodgett technique	Prof. S. S. Major, Professor, Physics Department, IIT Bombay, Mumbai 400076	19,31,540/-	2 Years
27.	INT/RFBR/P-59 13-07-09	On the nature of regulation of growth enhancement and biomass Accumulation by exclusion of UV-B and UV-A from solar radiation: Possible involvement of phytochrome	Dr. K.N.Guruprasad, Professor and Head, School of Life Sciences, Devi Ahilya University Indore – 452001	5,54,700/-	2 Years
28.	INT/RFBR/P-60 23-07-09	Experimental and theoretical investigations of the mechanical behavior and the evolution of structure for the alloys under non-stationary process of superplastic deformation	Prof. Barada Kanta Mishra, Director, Institute of Minerals and Materials Technology (IMMT), Bhubaneswar-751013,	8,75,200/-	2 Years
29.	INT/RFBR/P-61 17-08-09	Fundamentals of nanocrystalline materials plasticity	Dr. Sudhindra B. Sant, Associate Professor, Department of Metallurgical & Materials Engineering, Indian Institute of Technology, Kharagpur 721302	14,94,040/-	2 Years
30.	INT/RFBR/P-62 10-08-09	Investigation of eukaryotic mRNA features facilitating initiation of translation from non-AUG codons and AUG start codons in a suboptimal nucleotide context	Dr. R. Sankararamakrishnan, Associate Professor, Department of Biological Sciences and Bioengineering, IIT-Kanpur -208016,	17,88,300/-	2 Years

31.	INT/RFBR/P-63 02-09-09	Superplasticity and creep of nanostructured materials and alloys	Prof. Atul H. Chokshi, Professor, Department of Materials Engineering, Indian Institute of Science, Bangalore – 560 012,	22,32,920/-	2 Years
32.	INT/RFBR/P-64 02-09-09	Novel multifunctional (magnetic, ferroelectric, and semiconductive) effects in solid solutions of ternary magnetic perovskites	Dr. Dhananjai Pandey, Professor, School of Materials Sciences and Technology, I.T., Banaras Hindu University, Varanasi-221005	10,91,800/-	2 Years
33.	INT/RFBR/P-65 02-09-09	Interaction of Phases in Mechanically Treated Multicomponent Systems	Dr. Rakesh Kumar, Dy. Director, National Metallurgical, Laboratory, Jamshedpur – 831007,	15,35,360/-	2 Years
34.	INT/RFBR/P-66 15-10-09	“Multimetallic nanoparticles in polymer matrix as precursors of magnetic sensor materials”	Prof. Poonam Tandon, Macromolecular Research Laboratory, Department of Physics, University of Lucknow, Lucknow-226007,	18,24,400/-	2 Years
35.	INT/RFBR/P-67 30-10-09	Influence of hydrogen exposure, thermal and deformation treatments on structure evolution and properties of Zirconium base and Titanium base alloys	Dr G K Dey, Head , MSD, BARC, Trombay, Mumbai	7,82,800/-	2 Years
36.	INT/RFBR/P-68 09-11-09	C2-Symmetric Scaffolds from Secoisolariciresinol of Siberian Conifers: Design of Novel Biologically Active Agents Bearing Pharmacophore Clusters	Dr. G. V. M. Sharma, Scientist F (Dy. Director), D-211, Discovery Laboratory, Organic Chemistry Divi. III, Indian Institute of Chemical Technology, Hyderabad 500 007	20,71,240/-	2 Years
37.	INT/RFBR/P-69 24-11-09	Development of a Neuron-Like System for Real- Time Visual Object Detection	Dr. Abhishek Vaish, Indian Institute of Information Technology, (IIIT), Allahabad	28,84,040/-	2 Years
38.	INT/RFBR/P-70 23-11-09	Physico-technical basics of the creation of new silicon–metal nanostructures on vicinal silicon surfaces.	Prof. Dr. S.M. Shivaprasad, CPMU, JNCASR, Bangalore	5,41,800/-	2 Years
39.	INT/ILTP/A- 2.59 23-11-09	Development of advanced flotation technologies	Dr. S. Prabhakar, NML Madras Centre, Chennai	30,18,000/-	3 Years
40.	INT/ILTP/A- 2.56 29-12-09	Solvent extraction for value added products from wastes	Dr. B.D. Pandey, National Metallurgical Laboratory, Jamshedpur	28,90,400/-	3 Years

41.	INT/ILTP/A- 2.55 14-01-10	Opening of raw materials, mechanical activation & soft mechanochemistry	Dr. Rakesh Kumar, National Metallurgical Laboratory, Jamshedpur	33,70,000/-	3 Years
42.	INT/ILTP/A- 2.57 14-01-10	Autoclave processing/pressure metallurgy for metal extraction and materials synthesis	Dr. K.K. Sahu National Metallurgical Laboratory, Jamshedpur	33,26,000/-	3 Years
43.	INT/ILTP/A- 2.58 14-01-10	Electrothermal processing for light metal extraction	Dr. S. Ranganthan, National Metallurgical Laboratory, Jamshedpur	33,48,000/-	3 years
44.	INT/ILTP/A- 1.28 23-11-09	Development of transgenic Wheat plant against Cereal Cyst Nematode (<i>Heterodera avenae</i>) and Sunnpest (<i>Eurygaster intergriceps</i> Puton) by using Bioinformatics and Genetic Engineering approaches	Dr. C.V.S. Siva Prasad, Indian Institute of Information Technology Allahabad.	53,97,620/-	3 Years
45.	INT/ILTP/A- 3.41 23-04-2009	Design of novel targets for experiments with ps and fs lasers	Raja Ramanna Centre for Advanced Technology, Indore-452013	6,84,000	3 Years

Partner Country: Germany

46.	INT/DAAD/P- 184/2009	Investigation of multi-nucleon transfer dynamics by heavy ion induced reactions using stable and exotic projectiles.	Samit Kr. Mandal, Dr., Reader, Department of Physics & Astrophysics, University of Delhi., NEW DELHI, 110007	407400/-	2 yrs
47.	INT/DAAD/P- 185/2009	Design and novel sensitizers and investigation of tumor targeting carrier system for photodynamic therapy.	Ramaiah D., Dr., Chemical Sciences & Technology Division, National Institute for Interdisciplinary Science and Technology (NIIST), Trivandrum	403200/-	2 yrs
48.	INT/DAAD/P- 187/2009	Arithmetic vs. Boolean complexity: The case of small-depth circuits.	Meena Mahajan, Professor, The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai	243180/-	2 yrs
49.	INT/DAAD/P- 188/2009	Heterogenization of organometallics over mesoporous organo-silica for oxidation and hydrogenation reactions.	Singh A P., Dr, Catalysis Division, National Chemical Laboratory, Pune-411008	328650/-	2 yrs

50.	INT/DAAD/P-189/2009	Studies on kinetic of scrap dissolution and effect of other parameters on dynamic control of steelmaking process	Brahma Deo, Prof, Department of Materials & Metallurgical Engineering, Dean of Faculty Affairs, Indian Institute of Technology, IIT Kanpur 208016	403200/-	2 yrs
51.	INT/DAAD/P-190/2009	Investigations into the character of parameter space of piecewise smooth systems.	Soumitro Banerjee, Professor, Centre for Theoretical Studies and Department of Electrical Engineering, Indian Institute of Technology, Kharagpur	420000/-	2 yrs
52.	INT/DAAD/P-191/2009	Molecular genetics of Albinism in the Indian population.	Sundaresan P., Dr, Head, Department of Genetics, Dr.G.Venkataswamy Eye Research Institute, Anna Nagar, Madurai – 625 020	181020/-	2 yrs
53.	INT/DAAD/P-192/2009	High-throughput investigation for the understanding of the formation of metal-organic framework solids.	Natarajan S., Professor, Solid State and structural Chemistry Unit, Indian Institute of Science, BANGALORE-560012	514500/-	2 yrs
54.	INT/DAAD/P-193/2009	Design and analysis of light weight piezoelectric fibre composites.	V K Srivastava, Department of Mechanical Engineering, Institute of Technology, BHU, Varanasi-221005	577500/-	2 yrs
55.	INT/DAAD/P-194/2009	Mechanochemical synthesis and electrochemical characterization of nanostructured ferrite materials.	John Berchmans L., Dr., CECRI, Karaikudi (Tamilnadu)	577500/-	2 yrs
56.	INT/DAAD/P-195/2009	Mechanisms of cholesterol transfer into milk- a comparative gene expression and metabolism study in buffaloes and cattles.	Prakash B S, Prof, Dr., Head, Division of Dairy Cattle Physiology, National Dairy Research Institute, Karnal-	312900/-	2 yrs
57.	INT/DAAD/P-196/2009	Investigation of magneto-transport mechanisms in layered perovskite single crystals using scanning tunneling spectroscopy.	Suja Elizabeth, Dr., Principal Research Scientist, Department of Physics, Indian Institute of Science, BANGALORE-560 012	577500/-	2 yrs

Partner Country: South Africa

58.	INT/SAFR/P3 (1)/2009	Development of computing tools for decision support in health assessment in rural areas.	Dr. S Ramakrishnan, Anna University, Chennai.	3,90,000	3 years
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59.	INT/SAFR/P3 (2)/2009	Aminosugar derivatives targeting XDR TB	Prof. Dilip D Dhavale, University of Pune	12,16,000	3 years
60.	INT/SAFR/P3 (3)/2009	The multi wavelength study of ultra-luminous X-ray sources	Prof.Ranjeev Misra, IUCAA,Pune	7,50,000	3 years
61.	INT/SAFR/P3 (4)/2009	Studies in highly compact stars	Prof A.Kembhavi, IUCAA, Pune	8,16,000	3 years
62.	INT/SAFR/P3 (5)/2009	Search and Study of Variability in Ap and Am Stars.	Mr.Santosh Joshi, ARIES, Nainital	8,76,000	3 years
63.	INT/SAFR/P3 (6).2009	Wastewater minimization in batch plants through on-site treatment, reuse and recycle processes.	Dr.Anurag Garg, IIT Bombay	3,81,000	3 years
64.	INT/SAFR/P3 (7)/2009	Precious metal based catalysts for hydrogen generation from natural gas and bio-fuels.	Dr.C VV Satyanarayana,NCL,Pune	6,30,000	3 years
65.	INT/SAFR/P3 (8)/2009	Gold nanoparticles as artificial enzymes	Prof Sambasivaro Kotha,IIT Bombay	7,32,000	3 years
66.	INT/SAFR/P3 (9)/2009	Energy recovery options from municipal solid waste and control/treatment measures of carbon emissions from landfills	Prof AK Dikshit, IIT Bombay	3,90,000	3 years
67.	INT/SAFR/P3 (10)/2009	Development of inter-specific Eucalyptus hybrids and their evaluation for growth, wood quality and water-use efficiency for different end-uses in diverse agro-climatic regions.	Dr. B Mohan Raju, Univ. of Agricultural Sciences(UAS), Bangalore.	9,75,000	3 years
68.	INT/SAFR/P3 (11)/2009	Astrophysical and Cosmological implication of Noncommutative Space-time	Dr. Biswajit Chakraborty, SNB NCBS, Kolkata	8,76,000	3 years
69.	INT/SAFR/P3 (12)/2009	Effects of Biodiesel oxidation stability on the Engine combustion and emissions characteristics	Dr.Avinash Kumar Agarwal, IIT Kanpur	7,62,000	3 years
70.	INT/SAFR/P3 (13)/2009	The use of indigenous Medicinal plants and commercialized herbal products in the biological response modulation of Cancer associated Chemo- and radiotherapy and its associated side effects amongst cancer patients.	Dr. K.Satyamoorthy, Manipal University, Manipal, Bangalore	9,06,000	3 years

71.	INT/SAFR/P3 (14)/2009	Efficient production of secondary metabolites from medicinal plants through in vitro culture	Dr.V Krishnasamy, Tamil Nadu, Agricultural Univ.	6,15,000	3 years
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Partner Country: Tunisia

72.	INT/TUN/P1 (1) /2009	Navel synthesis of nanostructured metal oxides using carbo-hydrates as structural agents and their applications in catalysis.	Dr. K. Jeevaratnam, Indian Institute of Chemical Technology, Hyderabad.	495,000	3 years
73.	INT/TUN/P1(3) /2009	Genetic comparison of primary congenital glaucoma in India and Tunisia- understanding the possible founder effects	Dr.Subhabrata Chakrabarti, LV Prasad Eye Inst.Hyderabad	440,000	3 years
74.	INT/TUN/P1 (4) /2009	Quantification and reduction of fouling by change in hydrodynamics and membrane surface modifications	Prof. Sirshendu DeIndian, Institute of Technology, Kharagpur	1170,000	3 years
75.	INT/TUN/P1 (5) /2009	Antigen and genome characterization of viral nervous necrosis virus (VNNV) of fish for development of diagnostics and vaccine	Prof. KM Shankar, Karnataka Veterinary Animal and Fisheries Sciences Univ. Mangalore	240,000	3 years
76.	INT/TUN/P1 (7) /2009	Fungal mediated green chemistry approach on the synthesis of metal nanoparticles and its molecular mechanistic aspects	Dr.G.Singaravelu, Thiruvalluvar Univ. Vellore.	450,000	3 years

Partner Country: Thailand

77.	DST/INT/THAI/ P06/08	Synthesis of nanostructures by asymmetric self organization of nanoparticles and its applications	Prof AK Raychaudhuri, Satyendra Nath Bose National Centre for Basic Sciences, Kolkata	500,000	2 years
78.	DST/INT/THAI/ P07/08	Controlled synthesis and characterization of nanoparticles of Zn-Salts using microemulsion incorporated with anion species.	Dr. Amiya Kumar Panda University of North Bengal.	316,000	2 years

Partner Country: Bulgaria

79.	INT/Bulgaria/B-01/08	Studies On Utilization Of Bio-Diesel Derived From Non-Edible Vegetable Oils Of Indian And Bulgarian Origin As Renewable Alternative Energy Source For The Compression Ignition Engine	Assistant Professor N. Kapilan, Department of Mechanical Engineering, Nagarjuna College of Engineering & Technology, Devanahalli, Bangalore	7,18,200/-	3 years
80.	INT/Bulgaria/B-02/08	Design And Development Of Intuitionistic Fuzzy Logic Tools In Information Technologies	Dr (Mrs.) R. Paravathi, Department of Mathematics, Vellalar College for Women, Erode	7,93,800/-	3 years
81.	INT/Bulgaria/B-03/08	Research And Development Of New Materials On The Base Of Recycling Of Reactive And Refractory Metals Scrap Through Electron Beam Method	Dr. TL Prakash, Centre for Materials for Electronics Technology (C-MET), IDA, Phase-III, Cherlapally, HCL Post, Hyderabad	8,82,000/-	3 years
82.	INT/Bulgaria/B-05/08	Decision Support System For Assessing Impact Of Low Quality Water Used In Irrigated Agriculture On Food Production	Dr. Ashwani Kumar, Water Technology Centre for Eastern Region, Chandrasekharpur, Bhubaneswar, Orissa	8,88,000/-	3 years
83.	INT/Bulgaria/B-06/08	Short-Term Optical Variability Of Various Classes Of Luminous Agns	Dr. Alok Chandra Gupta, Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	8,09,550/-	3 years
84.	INT/Bulgaria/B-07/08	Active Deformation In Mountain Front Of The Central Seismic Gap Region In Garhwal Himalaya	Dr. AK Pandey, National Geophysical Research Institute, Uppal Road, Hyderabad	8,88,000/-	3 years
85.	INT/Bulgaria/B-08/08	Nanostructured Urease Biosensor For Determination Of Heavy Metals For Food Safety And Environmental Monitoring	Dr.(Mrs.) NR Kamini, Central Leather Research Institute, , Chennai	6,74,100/-	3 years
86.	INT/Bulgaria/B-09/08	Prebiotics And Nutraceuticals Production From Lactic Acid Bacteria	Dr. Arun Goyal, Department of Biotechnology, Indian Institute of Technology-Guwahati, , Guwahati	16,08,600/-	3 years
87.	INT/Bulgaria/B-10/08	In situ Synthesis Of Metallic And Intermetallic Nanoparticles With Controlled Dimensions And Topography For Biomedical Applications	Dr. Arvind Sinha, National Metallurgical Laboratory, NML, Burmahines, Jamshedpur	8,31,600/-	3 years
88.	INT/Bulgaria/B-12/08	Investigation And Application Of New Synthetic Strategies For The Synthesis Of DHODH Inhibitors For Anticancer Activity	Professor Manjunath Ghate, Department of Pharmaceutical Chemistry, Nirma University of Science & Technology, Sarkhej Gandhinagar Highway, Ahmedabad	5,10,300/-	3 years

89.	INT/Bulgaria/B-13/08	Al-Si-Zr Alloy Based Material For Biomedical Application	Dr. Ashit Kumar Pramanick, National Metallurgical Laboratory, Jamshedpur	4,15,800/-	3 years
Partner Country: Mexico					
90.	INT/Mex/02/08	Software Development for Intelligent Control of Mobile Robots based on Higher Order Sliding modes and Reconfiguration Problem	Prof. B Bandyopadhyay, Interdiscip. Programme in Systems & Control Engg., Indian Institute of Technology, Mumbai	6,42,000/-	3 years
91.	INT/Mex/04/08	Development of Efficient Many-objective Optimization Technique With Parallel Computing and Objective Reduction	Dr. Sanghamitra Bandyopadhyay, Machine Intelligence Unit, Indian Statistical Institute, 203, Barrackpore Trunk Road, Kolkata	10,14,300/-	3 years
92.	INT/Mex/07/08	Development of fracture and fatigue resistant cast aluminium alloys produced By semi-solid metal casting and conventional casting processes	Dr. DK Dwivedi, Dept of Mechanical & Industrial Engg, Indian Institute of Technology, Roorkee	8,29,500/-	3 years
93.	INT/Mex/09/08	Development of Nanocomposite Based Advanced Photoconic Materials and its Modification by Ion Irradiation	Dr. Fouran Singh, Inter-University Accelerator Centre, Aruna Asaf Ali Marg, Post Box No. 10502, , New Delhi	14,55,300/-	3 years
94.	INT/Mex/10/08	Dimorphism in a marine isoate <i>Yarrowia lipolytica</i> : Significance of ornithine decarboxy-lase in oxygen dependent yeast-hypha transition and its correlation with alkane degradation	Dr. MV Deshpande, National Chemical Laboratory, Pune NML, Burmamines,	6,99,000/-	3 years
95.	INT/Mex/11/08	Engineering of novel sheet material from biological sources deciphering bioplastic production	Dr. Archana Tiwari, School of Biotechnology, Rajiv Gandhi Proudhyogiki, Vishwa-vidhyalaya, Uppal Road, Bhopal	21,54,000/-	3 years
96.	INT/Mex/12/08	Heavy metal enrichments in coastal areas of Bay of Bengal and Gulf of Mexico: A multidisci-plinary approach (water, sediment and bivalves) Link to climatic stress in tropical and temperate environment)	Dr. S K Sarkar, Dept; of Marine Science, University of Calcutta,, 35, Ballygunge Circular Road, Kolkata	12,09,000	3 years
Partner Country: Japan					

97.	DST/INT/JAP/ P-68/2009	ZnO nanorods for glucose and DNA biosensor application	Prof. S.N. Sahu Professor Cluster & Nanostructure Institute of Physics Institute of Physics Sachivalaya Marg, Bhubaneswar	4,56,000	
98.	DST/INT/JAP/ P-69/2009	Design and development of visible light driven layered materials for photo decomposition of water	Dr. K.M. Parida, Colloids & Materials Chemistry Department, Institute of Minerals & Materials Technology, Bhubaneswar	3,74,000	
99.	DST/INT/JAP/ P-70/2009	Identification of cDNA Markers Linked to Genes Controlling Non-Susceptibility to BmNPV in the Mulberry Silkworm BOMBYX MORI	Dr.S.Sreekumar, Scientist 'C', Molecular Biology Laboratory, Central Sericultural Research and Training Institute, , Mysore	7,13,000	2 yrs
100.	DST/INT/JAP/ P-71/2009	Understanding the role of ubiquitin proteasome system dysfunction in the pathogenesis of Huntington's disease	Dr.Nihar Ranjan Jana, Associate Professor, National Brain Research Center, Manesar, Gurgaon	2,29,500	2 yrs
101.	DST/INT/JAP/ P-72/2009	Preservation of endangered Species and their Genetic Resources by Biotechnological Interventions	Dr. Sandeep Goel, Scientist Gr IV(1) Laboratory for the Conservation of Endangered Species (LaCONES), Centre for Cellular and Molecular Biology (CCMB), Uppal Road, Hyderabad	4,86,000	2 yrs
102.	DST/INT/JAP/ P-73/2009	Amino Acid Polymorphisms in the Conserved motifs of HMA Proteins and Heavy Metal Tolerance in Plants	Dr. Sanjib Kumar Panda, Reader, Department of Life Science, Assam University, Assam	4,17,000	2 yrs
103.	DST/INT/JAP/ P-74/2009	Evolutional Medical Science: Identification of HIV/AIDS-related genes to develop therapeutic and preventive strategies	Prof. N.K. Mehra, Head, Department of Transplant Immunology & Immunogenetics, All India Institute of Medical Sciences, New Delhi	5,46,000	2 yrs
104.	DST/INT/JAP/ P-75/2009	Identification of novel carbohydrate metabolic enzymes from both Japanese and Indian thermal-environments with environmental genomics technique and their application	Dr. T. Satyanarayana, Department of Microbiology, University of Delhi, South Campus, New Delhi	5,14,000	2 yrs

105.	DST/INT/JAP/ P-76/2009	Development of high precision QTL detection approach for outcrossing species using red clover AILs	Dr. T.R. Sharma, Advanced Centre of Hill Bioresources & Biotechnology, College of Agriculture, CSK HPAU, Palampur (H.P.)	7,09,000	2 yrs
106.	DST/INT/JAP/ P-77/2009	Bioactive molecules from seaweeds: Antioxidative, antimicrobial, antihypertensive and anticancerous properties of polyphenols and polysachharides	Dr. N.M. Sachindra, Scientist, Department of Meat, Fish & Poultry Technology, central Food Technological Research Institute, Karnataka	7,34,000	2 yrs
107.	DST/INT/JAP/ P-78/2009	Genetic Transformation of Plants for Efficient Utilization of Solar Energy at Reduced Light Intensity	Prof. Baishnab Charan Tripathy, School of Life Sciences, Jawaharlal Nehru University, New Delhi	7,87,000	2 yrs
108.	DST/INT/JAP/ P-79/2009	Synthesis, method development and the biological implications for glycol-conjugate based drugs: A new perspective study towards the green chemistry	Prof. Kanchugarakoppal S. Rangappa, Department of Studies in Chemistry, Manasagangotri, University of Mysore	3,12,500	2 yrs
109.	DST/INT/JAP/ P-80/2009	Live Cell Analysis of Plant Reproductive Barriers	Dr. R. Baskar, Deptt. of Biotechnology-Madras,	7,24,000	2 yrs
110.	DST/INT/JAP/ P-81/2009	Study of gravitational wave detection using LCGT and advanced detectors :radiometric search, coincidence and coherent detection	Prof. Sanjeev Dhurandhar, Professor, IUCAA, Post Bag 4, Ganeshkhind, Pune-	2,80,000	2 yrs
111.	DST/INT/JAP/ P-82/2009	Numerical exploration of orbits in binary stellar systems	Dr. M.K. Das, Institute of Informatics & Communication, University of Delhi, South Campus, , New Delhi	2,33,000	2 yrs
112.	DST/INT/JAP/ P-83/2009	Towards understanding the origin of dark energy, dark matter and inflation	Prof. M. Sami Centre for Theoretical Physics, Jamia Millia Islamia, New Delhi-	3,94,000	2 yrs
113.	DST/INT/JAP/ P-84/2009	Applications of mesoporous zeolitic materials to catalysis	Dr. Asim Bhaumik, Associate Professor, Department of Materials Science and Centre for Advanced Materials, Indian Association for the Cultivation of Science, Kolkata	2,01,000	2 yrs
114.	DST/INT/JAP/ P-86/2009	Green Chemical Processes by using solid catalysts	Dr.M Lakshmi Kantam, Scientist 'G'&Head, Inorganic & Physical Chemistry	3,32,000	2 yrs

			Division, Indian Institute of Chemical Technology (CSIR), Hyderabad		
Partner Country: Australia					
115.	DST/INTAUS/P-20/09	"Does climate change drive evolution?"	Dr Siva Kumar Swaminathan, Div. of Biotechnology & Toxicology, Environment Protection Training and Research Institute (EPTRI), 91/4, Gachibowli, Hyderabad	35,13,840	2 Yrs
116.	DST/INTAUS/P-21/09	Gas in Galaxies in the Distant Past	Prof. Jayaram N. Chengalur, NCRA/TIFR, P.O.Bag 3, Pune University Campus, Ganeshkhind, Pune	14,61,330	2 Yrs
117.	DST/INTAUS/P-22/09	All-optical actuation and interrogation of MEMS and NEMS resonant mode sensors	Prof Rudra Pratap, Department of Mechanical Engineering, Indian Institute of Science, Bangalore	18,45,430	3 Yrs
118.	DST/INTAUS/P-23/09	The Impact of Noise in Quantum Electronics	Dr.Arindam Ghosh, Department of Physics, Indian Institute of Science, Bangalore	26,54,230	3 Yrs
119.	DST/INTAUS/P-24/09	Long-term system evolution of the Krishna-Godavari Basin and its hinterland in eastern India: a partnership for enhancing offshore hydrocarbon exploration success	Dr. Devender Kumar, National Geophysical Research Institute, Uppal Road, Hyderabad-	32,83,280	3 Yrs
120.	DST/INTAUS/P-26/09	Establishing Australian-Indian Collaboration on Gravitational Wave Astronomy	Prof. B. R. Iyer, Raman Research Institute, C.V.Raman Avenue, Sadashivanagar, Bangalore	Amount: 10,58,000	2 Years
121.	DST/INTAUS/P-27/09	Managing change in Soil Moisture and Agricultural Productivity under a Global Warming scenario using a Catchment Scale Climate Change Assessment Framework	Dr D Nagesh Kumar Department of Civil Engineering, Indian Institute of Science, Bangalore-	16,07,760	3 yrs
122.	DST/INTAUS/P-28/09	The Thermal Evolution of Peninsula India: Past Behaviours and Future Potential	Dr T.R.K. Chetty, Geological Studies Division, National Geophysical Research Institute, Uppal Road, Hyderabad	35,18,610	3 yrs
Partner Country: UK					
123.	DST/UKERI/SA / P-13/2009	Contacting 3D electrodeposited nanowires:	Dr. Kaylan Mandal S. N. Bose National Centre	7,74,900	3 yrs

		new opportunities for spintronics technology	for Basic Sciences, Kolata		
124.	DST/UKERI/SA / P-14/2009	Optimal Vibration Control of Composite Structures	Dr B. Bhattacharya IIT-Kanpur	12,11,175	3 yrs
125.	DST/UKERI/SA / P-15/2009	Biomimetic hydroxyapatite coating on zirconium based biocompatible alloys	Dr. Ashit K. Pramanick National Metallurgical Laboratory, Jamshedpur	18,12,720	3 yrs
126.	DST/UKERI/SA / P-16/2009	Design and development of nano vanadium phosphate as oxidation catalysts	Dr Kulamani Parida Institute of Minerals and Materials Technology, Orissa	30,55,500	3 yrs
127.	DST/UKERI/SA / P-17/2009	Use of Biofuels for the Development of Low Carbon Emission Engines: Application of Laser Diagnostics and CFD simulations	Prof. Ravikrishna Rayavarapu Indian Institute of Science Bangalore	17,82,900	3 yrs
128.	DST/UKERI/SA / P-18/2009	Supermacroporous Cryogels for Cartilage Tissue Engineering	Dr. Ashok Kumar Indian Institute of Technology, Kanpur	20,88,450	3 yrs
129.	DST/UKERI/SA / P-19/2009	Aberration Corrected In-situ Electron Microscopy of Nanomaterial Structures and Transformations	Prof. P S Anil Kumar Indian Institute of Science Bangalore	12,60,000/-	3 yrs
130.	DST/UKERI/SA / P-20/2009	Electronic Properties and structures of Quantum Dots and Quantum Wells	Prof D Sharma Indian Association for the Cultivation of Science	15,18,825	3 yrs
131.	DST/UKERI/SA / P-21/2009	Development of a solar concentrator for solar-water desalination	Dr K S Reddy Indian Institute of Technology Madras	29,16,900	3 yrs
132.	DST/UKERI/SA / P-22/2009	The Structure of the Vitellogenin receptor from Lepidoptera	Prof M. Krishnan Bharathidasan University	12,22,888	3 yrs
133.	DST/UKERI/SA / P-23/2009	Effect of cation substitution on the structure and biocompatibility of ionomer glasses and glass ceramics	Dr B. Basu Indian Institute of Technology, Kanpur	7,50,000	3 yrs
134.	DST/UKERI/SA / P-24/2009	Study of nano-materials for their use in engine oil formulations for better fuel efficiency.	Dr M.R Tyagi Indian Institute of Petroleum, Dehradun	19,34,100	3 yrs
135.	DST/UKERI/SA / P-25/2009	Clean energy from biomass: catalysing pyrolised carbon for soil sequestration	Dr Sadhana Rayalu National Environmental Engineering Research Institute, Nagpur	12,55,800	3 yrs
136.	DST/UKERI/SA / P-26/2009	Signal Processing and Information Theoretic study of Cognitive Radio Networks	Dr. Shankar Prakriya Indian Institute of Technology, Delhi	11,41,350	3 yrs

137.	DST/UKERI/SA / P-27/2009	Hydrogen generation by electrolyses of water	Dr. S. Basu Indian Institute of Technology, Delhi	13,13,928	3 yrs
138.	DST/UKERI/SA / P-28/2009	Glutathione Peroxidase and Peroxynitrite Reductase Mimetics	Prof G. Mugesh Indian Institute of Science Bangalore	10,28,685	3 yrs
139.	DST/UKERI/SA / P-29/2009	Design and Fabrication of Nanomachined Thermal Sensors using FIB	Prof Arup Kumar Ray Chaudhuri SN Bose National Centre for Basics Sciences, Kolkota	12,60,000	3 yrs