

International Division
List of approved projects during year 2008-09

Sl. No	File No.	Title	Indian Coordinator	Amount Sanctioned Rs.	Duration
Partner Country: Russia					
1.	INT/ILTP/A-6.24 31-03-09	Collaborative research work on the development of the soft ware and experiments related to the design of the target and beam window for the Accelerator Driven Sub-critical System	Dr. Vinod Kumar, University of Rajasthan, Jaipur	32,67,600	3 Years
2.	INT/ILTP/B-2.69 07-07-08	Earthquake hazard quantification on GIS Platform	Dr. Imtiyaz Ahamed Parvez, Centre for Mathematical Modelling and Computer Simulation, Bangalore	15,87,200	3 Years
3.	INT/ILTP/B-5.21 22-08-08	Physico-chemical studies on the oxide mineral systems in the presence of surfactants and polymers for beneficiation of iron ores	Dr. Ram Pravesh Bhagat, National Metallurgical Laboratory, Jamshedpur	12,57,400	3 Years
4.	INT/ILTP/B-2.62 29-09-08	Preparatopm pf catalogue of Indian Earthquakes and Test for its Completeness	Dr. P.R. Baidya, India Meteorological Department, New Delhi	6,00,000	3 Years
5.	INT/ILTP/B-2.63 29-09-08	Testing of the INQUA Earthquake intensity scale based on co-seismic environmental effects using recent Indian Earthquakes	Dr. R.S. Dattatrayam, India Meteorological Department, New Delhi	9,00,000	3 Years
6.	INT/ILTP/B-2.64 29-09-08	Lithosperic Structure and Anisotropy of the Indian Shield and Himalaya	Dr. R.S. Dattatrayam, India Meteorological Department, New Delhi	12,00,000	3 Years
7.	INT/ILTP/B-2.60 29-09-08	Identification of faults being at the stage of reactivation on the base of microseismic study in central Himalaya	Dr. R.S. Dattatrayam, India Meteorological Department, New Delhi	8,00,000	2 Years
8.	INT/ILTP/B-3.20 18-11-08	Gas-duct disk formation and evaluation around single and binary stars	Dr. J.C. Pandey, Aryabhata Research Instiute of Observational Sciences (ARIES), Nainital	2,67,000	3 Years

9.	INT/ILTP/B-3.19 17-11-08	Studies of Chemically Peculiar and Rapidly oscillating peculiar A type Stars	Dr. Santosh Joshi, Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	2,82,000	3 Years
10.	INT/ILTP/B-3.18 31-07-08	Design and development of Faint object Spectrograph and Camera (FOSC) for 3.6 m telescope	Dr. Mahendra Singh, Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	5,64,000	3 Years
11.	INT/ILTP/B-1(b)10 26-11-08	Numerical & experimental analysis of influence of boundary conditions of deformation of metal plates impacted by projectile	Dr. P.K. Gupta, Indian Institutes of Technology, Roorkee	16,58,280	3 Years
12.	INT/RFBR/P-01 11-09-08	Erosion wear of pipelines of pneumotransport installations and definition of critical velocities at pneumotransport of fine bulk silicon-containing materials	Prof. V K Agarwal, Indian Institute of Technology, Hauz Khas, New Delhi	13,37,600	2 Years
13.	INT/RFBR/P-02 09-09-08	Investigation on synthesis and properties of magnetic nanostructures and nanocomposites by electromagnetic methods	Prof. D. Chakravorty, Indian Association for the Cultivation of Sciences, Jadavpur	8,90,400	2 Years
14.	INT/RFBR/P-03 09-09-08	Design, Synthesis and Functional Evaluation of Nano-sized Molecules Derived from Bile Acids	Prof. Uday Maitra, Dept of Organic Chemistry, Indian Institute of Science, Bangalore	18,03,040	2 Years
15.	INT/RFBR/P-04 09-09-08	Algorithms for Robust Mobile Wireless Sensor Network	Dr. Soumyendu Raha, Supercomputer Education and Research Centre, Indian Institute of Science, Bangalore	13,59,120	2 Years
16.	INT/RFBR/P-05 08-09-08	Terahertz emission of Si/SiGe/Si structures doped with shallow acceptors	Prof. S.K. Ray, Dept. of Physics & Meteorology IIT Kharagpur	9,63,800	2 Years
17.	INT/RFBR/P-06 26-09-08	Reductive cleavage of carbon-chlorine bonds in polychlorobiphenyls –A complementary synthetic, electrochemical and computational approach	Prof. M.V.Sangaranarayanan, Department of Chemistry, Indian Institute of Technology-Madras, Chennai	13,19,640	2 Years
18.	INT/RFBR/P-07 04-09-08	Study of microscopic phase separation and related magnetoelectric phenomena in manganese multiferroics	Dr. Sugata Ray, Dept. of Materials Sc. Indian Association for the Cultivation of Science Kolkata	16,23,200	2 Years

19.	INT/RFBR/P-08 04-09-08	Search for new methods based on simple diffusion and thermal technologies for production and separation of medical cyclotron radionuclides like ^{67}Ga , ^{111}In , ^{186}Re and ^{199}Tl .	Prof. Susanta Lahiri, Saha Institute of Nuclear Physics, Kolkata	8,08,000	2 Years
20.	INT/RFBR/P-09 28-08-08	Phonon Quantization and Electron-Phonon Interaction in Germanium/Silicon quantum dots by Raman Scattering, Photoluminescence and computer simulation	Prof. Prafulla K. Jha, Department of Physics, Bhavnagar University, Bhavnagar	11,30,040	2 Years
21.	INT/RFBR/P-10 04-09-08	Metal mixing and the search for missing baryons in the universe	Dr. Biman B. Nath, Raman Research Institute, Sadashiva Nagar, Bangalore	9,46,400	2 Years
22.	INT/RFBR/P-11 12-09-08	Studies on new pathways for radiolabeling of proteins using bifunctional ligands and "click chemistry"	Dr. Dalia Nayak, Saha Institute of Nuclear Physics, Kolkata	4,84,000	2 Years
23.	INT/RFBR/P-12 04-09-08	Moving lattice solitons	Prof. Avinash Khare, Institute of Physics, Sachivalaya Marg, Bhubaneswar	2,26,000	2 Years
24.	INT/RFBR/P-13 26-09-08	Design, synthesis, physico-chemical studies and biological evaluation of novel 1-hydrazinophthalazine based hydrazones and their transition metal complexes towards antihypertensive activity	Dr. K.B.Gudasi, Department of Chemistry, Karnatak University, Dharwad	17,68,580	2 Years
25.	INT/RFBR/P-14 26-09-08	Competition of exchange interactions and functional properties of novel metamagnetic shape memory alloys Ni-Mn-Z (Z = In, Sn, Sb, Al)	Dr. Ratnamala Chatterjee, Physics Department, I.I.T Delhi, Hauz Khas, New – Delhi	12,76,440	2 Years
26.	INT/RFBR/P-15 25-09-08	Mathematical Modeling and Research of Fundamental problems in mechanics of continuum media on multiprocessor	Mr. S. P. Dixit, Centre For Development of Advanced Computing (C-DAC), Pune	5,73,300	2 Years
27.	INT/RFBR/P-16 26-09-08	Cell models of nanofiltration through complex porous membrane	Dr. Satya Deo, Department of Mathematics, University of Allahabad, Allahabad	6,59,800	2 Years

28.	INT/RFBR/P-17 29-09-08	Development of new methods and algorithms for pathophysiological characterization of coronary blockade by processing ECG and similar quasiperiodic biomedical signals and biomedical images.	Dr. Tapobrata Lahiri, Indian Institute of Information Technology, (IIIT), Allahabad	26,46,840	2 Years
29.	INT/RFBR/P-18 25-09-08	Brane world cosmology with quintessence phantom field, dark matter and dark energy, effectively described by non-linear sigma models	Prof. M Sami, Centre for theoretical Physics, Jamia Millia Islamia, Delhi	8,93,640	2 Years
30.	INT/RFBR/P-19 25-09-08	Intra-pore molecular compounds in microporous silicates as indicators of P-T-fluid conditions of mineral and rock formation	Dr P.S.R. Prasad, National Geophysical Research Institute, HYDERABAD	15,73,840	2 Years
31.	INT/RFBR/P-20 19-09-08	Precise X-ray and neutron structural studies of the family of solid solutions crystals based on $\text{La}_3\text{Ga}_5\text{SiO}_{14}$ langasite and establishment of regular relationships between chemical composition, atomic structure and physical properties of these materials	R Chitra, Bhabha Atomic Research Centre, Mumbai	9,52,700	2 Years
32.	INT/RFBR/P-21 20-10-08	Synthesis and study of ionic liquids possessing complexing cations or anions: towards novel task-specific extractants for metal ions and organic compounds	Dr. Thomas Daniel, National Chemical Laboratory, Pune	18,65,140	2 Years
33.	INT/RFBR/P-22 14-10-08	Development of novel lead compounds for antimonial resistant Leishmania donovani	Prof. Rentala Madhubala, School of Life Sciences, Jawaharlal Nehru University, New Delhi	12,45,400	2 Years
34.	INT/RFBR/P-23 15-10-08	Numerical simulation of multiscale supersonic flows with low dissipative shock capturing schemes	Prof. SM Deshpande, JNCASR, Jakkur, Bangalore	14,26,000	2 Years
35.	INT/RFBR/P-24 15-10-08	Modeling of technological processes of manufacturing, interaction, and fracture of solids and composite structures	Prof. N.K Gupta, Dept. of Applied Mechanics, IIT Delhi, Hauz Khas, New Delhi	16,03,220	2 Years

36.	INT/RFBR/P-25 26-11-08	Spect Spectroscopic and photometric studies of type Ib/c SNe in the context of GRB-SNe correlation	Dr. Shashi Bhushan Pandey, Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	8,81,500	2 Years
37.	INT/RFBR/P-26 18-11-08	Synthesis, structure and stereochemical non-rigidity of organotellurium compounds with intramolecular coordination of the hypervalent type; their use in the synthesis of novel heterocycles	Prof. Harkesh B. Singh, Department of Chemistry, Indian Institute of Technology, Bombay, Powai, Mumbai-	14,64,600	2 Years
38.	INT/RFBR/P-27 18-11-08	Research Studies in Algebra and Topology	Prof. Ashwani K. Bhandari, Department of Mathematics, Panjab University, Chandigarh	6,86,400	2 Years
39.	INT/RFBR/P-28 18-11-08	To study the effect of repeated magnetic stimulation on sensori motor recovery in spinal cord injured patients.	Dr. Rashmi Mathur, Department of Physiology, All India Institute of Medical Sciences, New Delhi	19,88,140	2 Years
40.	INT/RFBR/P-29 23-12-08	Development of scientific bases of technologies for recovery of nonferrous and rare metals from technogeneous raw materials by using binary reagents	Dr. B.D. Pandey, Dy. Director, NML, Jamshedpur	16,50,360	2 Years
41.	INT/RFBR/P-30 23-12-08	Development of Fluorinated Polymer Membranes for Separation of Industrial Gas Mixtures	Dr. S. Sridhar, Indian Institute of Chemical Technology (IICT), Hyderabad	9,20,440	2 Years
42.	INT/RFBR/P-31 29-12-08	Construction of regulatory networks in prokaryotes through protein: protein interaction predictions and transcription regulation predictions	Dr. Shekhar C. Mande, Centre for DNA Fingerprinting and Diagnostics, ECIL Road, Nacharam, Hyderabad	18,47,040	2 Years
43.	INT/RFBR/P-32 20-01-09	Grain boundary segregation, precipitates morphology and surface modification in case of complete and incomplete grain boundary wetting by a second solid phase in steels.	Prof. I. Manna, Indian Institute of Technology Kharagpur	12,94,900	2 Years

Partner Country: Republic of Korea

44.	INT/ROK/PROJ -8 /08	Optimal Mobility and Resource Management in Next Generation 4G Wireless	Dr. Swades De, IIT, Delhi	4,66,500	3 Years
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	20.03.2009	Networks			
45.	INT/ROK/PROJ /13 /2008 27.3.2008	Application of Tasar and Muga Silk Sericin as Material for Drug Delivery	Dr. V. Shyam Kumar, Karnatak University	3,90,000	3 years
46.	INT/ROK/PROJ / 16 /08 28.04.2008	Study and development of nano composite photo catalysts for hydrogen production from water	Dr.(Mrs) V. Durga Kumari, IICT, Hyderabad	4,89,000	3 Years
47.	INT/ROK/PROJ / 27/2008 30.3.2008	Role of NF-related factor-2/Hemoxygenase-1 (Nrf2/HO-1) signaling in the retinal vasculature	Dr. M. Balasubramanyam, Madras Diabetes Research Foundation, Chennai.	8,76,000	3 Years
48.	INT/ROK/PROJ / 34/2008 26.3.2008	Fabrication and evaluation of solution grown and pulsed laser deposited films based solar cells	Prof. C. D.Lokhande, Shivaji Univ., Kolhapur	4,16,000	3 Years
Partner Country: Thailand					
49.	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
50.	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					
51.	INT/Bulgaria/B-57/05	Studies On Antioxidants Against Oxidative Stress Induced By Drug & Radiation	Dr. Rakesh K. Sharma, Institute of Nuclear Medicine and Allied Sciences, SK Mazumdar Road, Delhi-07	8,76,000/-	3 Years
52.	INT/Bulgaria/B-66/06	High End Performance Solid State Power Supply Copper Lasers For Fine Material Processing	Mr. SV Nakhe, Raja Ramanna Centre for Advanced Technology, Laser System Engineering Division, Indore	8,88,000/-	3 Years
Partner Country: Mexico					
53.	INT/Mex/05/07	Long-tail Effects in Probabilistic Seismic Hazard Analysis: A case study of Himalaya and Mexico City	Dr. Anand Joshi, Dept. of Earth Sciences, Indian Institute of Technology, Roorkee - 247 667	11,46,600/-	3 Years
54.	INT/Mex/06/07	Variability in the atmospheres of the sun and stars	Dr. Sunetra gioridhar, Indian Institute of Astrophysics, Bangalore – 560 034	9,45,000	3 Years

55.	INT/Mex/07/07	Estimation of site effect and ground motion in Delhi and Mexico City using strong ground motion data and preparation of near real-time shake map	Dr. Ashok Kumar, Dept. of Earth Sciences, Indian Institute of Technology, Roorkee - 247 667	14,61,000/-	3 Years
56.	INT/Mex/09/07	Near real time processing of 1 Hz GPS data as an aid in rapid estimation of source parameters of an earthquake including tsunami potential of offshore events	Dr. VK Gehlaut, National Geophysical Research Institute, Uppal Road, Hyderabad – 500 007	11,90,700/-	3 Years
57.	INT/Mex/11/07	Estimation of Ground Motion and site effects in the Indo-Gangetic Plains	Dr. RK Chadha, National Geophysical Research Institute, Uppal Road, Hyderabad – 500 007	11,65,500/-	3 Years
58.	INT/Mex/12/07	Fiber laser through development of Yb2O3 doped large core fiber based on nano-engineered suitable glass host	Dr. Mukul Chandra Paul, Central Glass & Ceramic Research Institute, 196, Raja SC Mullick Road, Kolkata – 32	11,46,600/-	3 Years
59.	INT/Mex/13/07	Theoretical and Experimental Study of Transport Barrier Formation by RF Waves	Dr. Sudip Sen, Physics Department, University of Delhi, Delhi – 110 007	8,97,750/-	3 Years
60.	INT/Mex/15/07	Development of new nanostructured mesoporous materials like SBA-15 for catalytic application in hydrotreatment	Dr. Gudemella Muralidhar, Catalytic Conversion Process Division, Indian Institute of Petroleum, PO, IIP, Mukhampur, Dehradun – 248 005	8,56,800/-	3 Years
61.	INT/Mex/16/07	Near real time estimation of (a) long period magnitude, (b) moment tensor and (c) tsunami potential of offshore earthquakes	Dr. R S Dattatreyam, India Meteorological Department, Lodhi Road, New Delhi – 110 003	8,56,800/-	3 Years

Partner Country: Germany

62.	INT/DAAD/P-173/2008	Investigation and improvement of corrosion and wear behaviour of laser clad magnesium alloys	Subodh Kumar, Prof., Department of Materials Engineering, Indian Institute of Science, Bangalore-560 012	256620	2 yrs
63.	INT/DAAD/P-174/2008	Novel ceramic collagen composites for bone regeneration	Annie John, Dr., Div. Implant Biology, Biomedical Technology Wing, Sree Chitra Tirunal Institute for Medical Sciences & Technology Poojapura, Trivandrum -695012	388500	2 yrs

64.	INT/DAAD/P-175/2008	Studies on electronic sputtering: Dependence on incident ion charge state and crystallographic structure of target material	Ambuj Tripathi, Dr., Materials Science Group, Inter University Accelerator Centre, PB 10502, Aruna Asaf Ali Marg, New Delhi 110067	433650	2 yrs
65.	INT/DAAD/P-176/2008	Simulation of Regional Salt and Water Balance in an Irrigated Area of Semi-Arid Region	Sudhindra Nath Panda, Dr., Department of Agricultural and Food Engineering, Indian Institute of Technology, Kharagpur - 721 302	385402	2 yrs
66.	INT/DAAD/P-177/2008	Surfactant assisted synthesis of Semiconducting Nanoparticles: A spectroscopic and physiochemical approach	Surinder K Mehta, Dr., Reader, Department of Chemistry, Panjab University, Sector-14, Chandigarh -160 014	397950	2 yrs
67.	INT/DAAD/P-178/2008	Technically important high TCR (temperature co-efficient of resistance) manganitenano-metal devices for infrared/bolometric detector applications	V.P.S. Awana, Dr., Superconductivity and Cryogenics Room No.109, National Physical Laboratory, Dr.K. S. Krishnan Marg, New Delhi 110012	306600	2 yrs
68.	INT/DAAD/P-179/2008	Synthesis of nanocomposite Materials for Application of High Performance Permanent Magnets	Ratnesh Gupta, Dr., Ass. Prof., Department of Physics, Indian Institute of Science, Education and Research, HC-7, Sector-III, Salt Lake, Kolkata-700106	339150	2 yrs
69.	INT/DAAD/P-180/2008	SPME-HPLC with segmented columns and simultaneous UV and dual electrochemical detection: Application to the selectivity enhancement for the determination of explosives	A. K. Malik, Prof., Department of Chemistry, Punjab University, Patiala-147002	493500	2 yrs
70.	INT/DAAD/P-181/2008	Supersymmetric Neutrinos	Gautam Bhattacharyya, Prof., Theory Division, Saha Institute of Nuclear Physics, 1/AF Bidhan Nagar, Kolkata-700064	323400	2 yrs
71.	INT/DAAD/P-182/2008	Investigation of Physical Properties of Biodegradable Polymers and their modification	T.G. Ajithkumar, Dr., Central NMR Facility, National Chemical Laboratory, Pune 411 008	343140	2 yrs
72.	INT/DAAD/P-183/2008	Catalytic control of Nox emissions using waste derived oxide supported transsition metals catalyst	Vidya S Batra, Dr., Energy-Environment Technology Division, The Energy and Resources Institute (TERI), Dabri Seth Block, India Habitat Centre, Lodhi Road, New Delhi 110003	493500	2 yrs

73.	INT/FRG/DFG/ P-13/2008	Assessment of non-point source pollution of soil and water resources using the AVSWAT model in an agricultural watershed in Eastern India	Rabindra Kumar Panda, Dr., Agricultural and Food Engineering Department, Indian Institute of Technology, Kharagpur-721302	470400	2 yrs
74.	INT/FRG/DFG/ P-15/2008	Comparative analysis of epigenetic regulation of the Cyp 19 gene in buffalo and cattle	Dheer Singh, Dr., Molecular Endocrinology Lab. Animal Biochemistry Division, National Dairy Research Institute (NDRI), Karnal-132001	1486800	2 yrs
75.	INT/FRG/DFG/ P-18/2008	Cross Talk between Secondary Messengers in Guard Cells during Abiotic Stress	Agepati S.Raghavendra, prof., Deptt. of Plant Sciences, University of Hyderabad, School of Life Sciences, Hyderabad 500046	1142400	2 yrs
76.	INT/FRG/DFG/ P-14/2008	Dynamics of trapped quantum Gases	G.S. Singh, Dr., Department of Physics, Indian Institute of Technology, Roorkee 247 667	577500	2 yrs
77.	INT/FRG/DFG/ P-09/2008	Experimental investigations and numerical modelling to produce desired material density gradient and layered work pieces with different hardness using Powder Injection Moulding (PIM)	Prashant. P. Date, Prof., Department of Mechanical Engineering, IIT-Bombay, Powai, Mumbai-400 076	422100	2 yrs
78.	INT/FRG/DFG/ P-12/2008	Fe-Ni nanoparticles as catalysts for the synthesis of Carbon nanotubes	S. Ramaprabhu, Dr., Department of Physics, IIT Madras, Chennai-600 036	386400	2 yrs
79.	INT/FRG/DFG/ P-07/2008	Genomics of host and habitat adaptation in an entomopathogenic fungus Genomics of host and habitat adaptation in an entomopathogenic fungus	K. Uma Devi, Prof., Andhra University, Department of Botany, Visakhapatnam, 530 003	1597200	2 yrs
80.	INT/FRG/DFG/ P-17/2008	Groundwater contamination due to waste disposal and aquifer characterization around Roorkee using integrated geoelectrical techniques.	M. Israil, Dr., Department of Earth Sciences, Indian Institute of Technology, Roorkee-247667	407400	2 yrs
81.	INT/FRG/DFG/ P-24/2008	Kissing-loop Interactions as Struts for Higher Order DNA Nanoarchitectures.	Sandeep Verma, Dr., Department of Chemistry, IIT Kanpur, Kanpur-208016	235200	2 yrs
82.	INT/FRG/DFG/ P-19/2008	Linking / Assembly and Encapsulation Type Chemistry Based on Keplerates Formed by	Sabyasachi Sarkar, Dr., Department of Chemistry, Indian Institute of Technology, Kanpur-208016	911400	2 yrs

		Chemical Darwinism			
83.	INT/FRG/DFG/ P-16/2008	Nano metal / metal oxide modified TiO ₂ photocatalyst for degradation of pollutants and disinfection of microorganisms under solar irradiation.	K. M. Parida, Dr., Institute of Minerals and Materials Technology, Bhubaneswar-751 013	491400	2 yrs
84.	INT/FRG/DFG/ P-20/2008	Nanoparticle-based non-viral vectors for gene transfection	K.C. Gupta, Dr., Nucleic Acids Research Laboratory, Institute of Genomics and Integrative Biology, Mall Road, Delhi University Campus, Delhi-110 007	606900	2 yrs
85.	INT/FRG/DFG/ P-22/2008	Pericyclic and Pseudopericyclic Mechanisms in 1,5-Electrocyclization of Cycloiminium Allylides and 2-Phosphaallylides: A Theoretical Investigation	R.K.Bansal, Prof., Department of Chemistry, University of Rajasthan, Jaipur-302 004	4609500	2 yrs
86.	INT/FRG/DFG/ P-10/2008	Quantum Chemical and Molecular Dynamics Studies of Charge Transfer through Polypeptides.	P Kollandaivel, Prof., School of Physical Sciences, Bharathiar University, Coimbatore-641046	277200	2 yrs
87.	INT/FRG/DFG/ P-21/2008	Soft x-ray spectroscopy on self-assembled nanoparticles	D.D. Sarma, Prof., Solid State and Structural Chemistry Unit & Centre for Condensed Matter Physics, Indian Institute of Science, Bangalore-560012	386400	2 yrs
88.	INT/FRG/DFG/ P-23/2008	Solitons and Soliton-Induced Supercontinuum Generation in Photonic Crystal Fibers with a Liquid Core	K. Porsezian, Prof., Department of Physics, Puducherry University, Puducherry 605 014	342300	2 yrs
89.	INT/FRG/DFG/ P-08/2008	Spectroscopy and photophysics of Atmosphere-Sensitive Molecules and Clusters in the Gas-Phase.	Tapas Chakraborty, Prof., Indian Association for the Cultivation of Science, Physical Chemistry Dept., Jadavpur, Kolkata – 32	331800	2 yrs
90.	INT/FRG/DFG/ P-25/2008	Studies on the enhancement of Heat Transfer and Ventilation Strategies during High Performance Evaporative Cooling of Buildings.	Ravi Kumar, Prof., Department of Mechanical & Industrial Engg., Indian Institute of Technology, Roorkee-247 667	523950/-	2 yrs
91.	INT/FRG/DFG/ P-06/2008	Synthesis, characterization, functionalization, and investigation of electrochemical properties of aligned carbon nanotubes.	Prathap Haridoss, Dr., Assistant Professor, Dept. of Metallurgical and Materials Engineering, IIT Madras, Chennai 600036	394800	2 yrs

92.	INT/FRG/DFG/ P-11/2008	Use of nanocomposites for efficient welding of thermoplastics.	C.K.Das, Prof., Head, Material Science Centre, Indian Institute of Technology, Kharagpur - 721302	764400	2 yrs
Partner Country: Switzerland					
93.	INT/SWISS/ISJ RP/IPP- 01/2009	Centre of Excellence in Microelectronics	Tiwari Murli Dhar, Director, IIIT Allahabad, Deoghat, Jhalwa, Allahabad-211012	4159600	3 yrs
94.		EPFL-IITD collaboration in Microengineering	Mukherjee Sudipto, Professor, Indian Institute of Technology Delhi, Dept. of Mechanical Engineering, Hauz Khas, New Delhi 110016	5763600	3 yrs
95.		Mechanical characterisation of advanced materials under dynamic load.	Singha Maloy K, Assistant Professor, Dept of Applied Mechanics, Indian Institute of Technology Delhi, New Delhi-110016	2487600	3 yrs
96.		Partnership for inter- disciplinary approaches to disease control interventions and public health training.	Vasanthapuram Kumaraswami, Officer-in-Charge, National Institute of Epidemiology, R- 127, 3rd Avenue, Tamil Nadu Housing Board, Ayapakkam, Chennai – 600 077	1806600	3 yrs
97.	INT/SWISS/P- 13/2009	Advanced restoration and super-resolution techniques for 3D fluorescence microscopy	Chaudhuri Subhasis, Professor, IIT Bombay, Dept of Electrical Eng., Powai, Mumbai- 400 076	3243020	3 yrs
98.	INT/SWISS/P- 14/2009	Understanding Motion: Surface 3D Deformation From Video Data	Chandran Sharat, Professor, IIT Mumbai, A202 Rekhi Bldg, CSE Dept, IIT Campus, Mumbai -400076	2245980	3 yrs
99.	INT/SWISS/P- 15/2009	Cross Cultural Personality Perception	Yegnanarayana Bayya, Professor and Microsoft Chair, International Institute of Information Technology, Gachibowli, Hyderabad- 500032	970560	3 yrs
100.	INT/SWISS/P- 16/2009	Compound plasmonic nanostructures.	Ramakrishna Subramaniam Anantha, Associate Professor, Indian Institute of Science Education and Research, MGSIPA Complex, Sector 26, Chandigarh	2754730	3 yrs

101.	INT/SWISS/P-17/2009	Ab Initio Density Functional Investigations of Complex Clusters.	Kanhere D G, Department of Physics and Centre for modeling and Simulation, University of Pune , Ganeshkhind, Pune-411007 Ndia	2651770	3 yrs
102.	INT/SWISS/P-18/2009	Transport and magnetic properties of strongly correlated systems at extreme conditions of pressure, low temperature and high magnetic field.	Sonachalam Arumugam, Reader, Centre for High Pressure Research, School of Physics, Bharathidasan University, Tiruchirappalli-620 024	2644730	3 yrs
103.	INT/SWISS/P-19/2009	Growth and investigation of a new non-cuprate high temperature superconductor	Varma Ghanshyam, Assistant Professor, Indian Institute of Technology Roorkee, Department of Physics, I.I.T. Roorkee, Roorkee-247667	2534730	3 yrs
104.	INT/SWISS/P-20/2009	Novel magnetic nanomaterials for spintronics.	Pandya Dinesh K, Thin Film Laboratory, Department of Physics, Indian Institute of Technology Delhi, New Delhi-110016	517800	3 yrs
105.	INT/SWISS/P-21/2009	Optical MEMS scanner for Optical Coherence Tomography: development and reliability.	Bhattacharya Shanti, Assistant Professor, Indian Institute of Technology Madras, Department of Electrical Engineering, Chennai-600036	2754730	3 yrs
106.	INT/SWISS/P-22/2009	Dynamics of RNA binding by the Polypyrimidine Tract Binding protein and its implications in alternative RNA splicing.	Ravindranathan Sapna, Scientist - C, Central NMR Facility, Room 132, National Chemical Laboratory, Dr. Homi Bhabha Road, Pune-411008	1309800	3 yrs
107.	INT/SWISS/P-23/2009	The olfactory system: from neural progenitors to brain circuitry	Rodrigues Veronica, Professor, National Centre for Biological Sciences, Tata Institute of Fundamental Research, GKVK Campus, Bangalore-560 065	1520560	3 yrs
108.	INT/SWISS/P-24/2009	Neuronal encoding of fear generalization: implications for stress disorders	Chattarji Sumantra, Professor, National Centre for Biological Sciences, TIFR, GKVK P.O., Bellary Road, Bangalore	2754730	3 yrs
109.	INT/SWISS/P-25/2009	Role of the ELAV Protein HuR in microRNA-mediated Gene Regulation in Normal and Transformed Human Cells	Bhattacharyya Suvendra Nath, Scientist Gr IV(3) (Assistant Professor Grade), Indian Institute of Chemical Biology, 4, Raja SC Mullick Road, Kolkata-700032	2754730	3 yrs

110.	INT/SWISS/P-26/2009	Regulation of the glideosome assembly and function in Apicomplexa	Sharma Pushkar, Staff Scientist V, National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi -110067	2754730	3 yrs
111.	INT/SWISS/P-27/2009	Yeast-based Screening System for Anti-malarial Drug Development	Tatu Utpal, Associate Professor, Indian Institute of Science, Department of Biochemistry, Bangalore-560012	3304730	3 yrs
112.	INT/SWISS/P-28/2009	Membrane properties affect a trans-membrane receptor's signaling.	Saha Bhaskar, Scientist E, National Centre for Cell Science (NCCS), Ganeshkhind, Pune- 411007	1520560	3 yrs
113.	INT/SWISS/P-29/2009	Scaffold-based control of chondrocyte phenotype: towards engineering of intervertebral disk tissue.	Ghosh Sourabh, Assistant Professor, Department of Textile Technology, IIT Delhi New Delhi-110016	2754730	3 yrs
114.	INT/SWISS/P-30/2009	Studying the effects of mTOR inhibitor and Sunitinib on Hepatic Stellate Cells.	Chatterjee Suvro, AU-KBC Research Centre, Anna University, Chennai	1520360	3 yrs
115.	INT/SWISS/P-31/2009	Strategies to combat multidrug resistance (MDR) in human pathogenic Candida species	Prasad Rajendra, Professor, Jawaharlal Nehru University, 101, School Of Life Sciences, New Delhi-110067	2597320	3 yrs
116.	INT/SWISS/P-32/2009	Therapeutic approaches using controlled transdermal delivery to treat neurodegenerative diseases in aging populations	Patravale Vandana, Reader in Pharmaceutics, Department of Pharmaceutical Sciences and Technology, Institute of Chemical Technology, Matunga, Mumbai-400019	2632800	3 yrs
117.	INT/SWISS/P-33/2009	Synthesis of novel ionic liquids and their application to Dyesensitised solar cells.	Thomas Daniel, Scientist E-II, Organic Chemistry Department, National Chemical Laboratory, Pashan Road, Pune 411008.	2699730	3 yrs
118.	INT/SWISS/P-34/2009	Biodegradable plastics: Gaining insight through molecular approaches.	Jain Rakesh Kumar, Scientist F, Institute of Microbial Technology (IMTECH), IMTECH, Sector 39A, Chandigarh-160039	2754730	3 yrs

Partner Country: Japan

119.	DST/INT/JAP/P-44/2008	Electric Field Effects on Optical Properties of Metal Nanoclusters	Prof. Biswanath Mallik, Indian Association for the Cultivation of Science, Jadavpur, Kolkata	1,71,000	2 years
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120.	DST/INT/JAP/ P-45/2008	Redox reactions of water-soluble selenides, selenoamino acids, and the sugar conjugates: Their applications as GPx mimics	Dr. K. Indira Priyadarsini Bhabha Atomic Research Centre, Mumbai	3,63,000	2 Years
121.	DST/INT/JAP/ P-46/2008	Understanding novel magnetic oxide nano-materials : Spectro-scropy and ab-initio theories	Prof. D.D.Sarma, Indian Association for the Cultivation of Sciences,	2,99,000	2 Years
122.	DST/INT/JAP/ P-47/2008	Development of Light Emitting Devices Based on ZnO Nanowires and Heterostructures	Prof. M. S. R. Rao, Indian Institute of Technology, Chennai	5,75,000	2 Years
123.	DST/INT/JAP/ P-48/2008	HPHT synthesis and characterization of new novel physical property materials	Dr.V.P.S. Awana National Physical Laboratory, New Delhi	2,79,600	2 Years
124.	DST/INT/JAP/ P-49/2008	Rheological behaviour of nanocomposites based on biodegradable polymers with special reference to fourier transform rheology	Dr.Kinsuk Naskar Indian Institute of Technology, Kharagpur	2,09,000	2 Years
125.	DST/INT/JAP/ P-50/2008	Nano Scale MOSFET's- Scalability Issues and Potential of di-electrics	Prof. Chandan K. Sarkar Jadavpur University, Kolkata	4,16,000	2 Years
126.	DST/INT/JAP/ P-51/2008	Study of Defect Centers in Nano-Piezoelectric Materials for Applications in Sensors	Dr. B.R Chakarborty National Physical Laboratory, New Delhi	3,44,000	2 Years
127.	DST/INT/JAP/ P-52/2008	Molecular Engineering of Aspergillus niger lipase for hydrolysis of biodegradable plastics	Dr.(Mrs) N.R. Kamini Central Leather Res. Instt., Chennai	2,59,000	2 Years
128.	DST/INT/JAP/ P-53/2008	Synthesis of stable aptamers and their applications in medical diagnostics	Dr. K.C.Gupta, , Instt. of Genomics and Integrative Biology, Delhi	3,72,000	2 Years
129.	DST/INT/JAP/ P-55/2008	Imaging photosynthesis of micropropagated plants	Dr. S. Dutta Gupta Indian Instt. of Tech., Kharagpur	2,30,000	2 Years
130.	DST/INT/JAP/ P-56/2008	Bioactivity of pheromonal compounds and their effect on cytosolic Ca ²⁺ dynamics in rat olfactory system	Dr. G .Archunan Bharthidasan Univ., Tiruchirappalli	3,92,000	2 Years
131.	DST/INT/JAP/ P-57/2008	Identification of molecular mechanisms for signal perception by a multi-stress sensor Hik33 in Synechocystis sp.PCC 6803	Dr S Shivaji Centre for Cellular and Molecular Biology, Hyderabad	2,86,000	2 Years

132.	DST/INT/JAP/ P-58/2008	Study of Mycobacterium tuberculosis using population-based genotyping novel diagnostic and therapeutic method	Prof. Saudan Singh, V. M. Medical College and Safdarjung Hospital, New Delhi	3,80,000	2 Years
133.	DST/INT/JAP/ P-59/2008	Generation of Plants resistant to biotic and abiotic stresses through modulation of the polyamine metabolism : molecular basis and application	Prof. M. Arumugam Pillai Tamil Nadu Agricultural Univ., Killikulam,	2,30,000	2 Years
134.	DST/INT/JAP/ P-60/2008	Identification and functional characterization of genes responsible for metal (Al) tolerance wild and crop plants	Dr. B. N. Tripathi, Banasthali Vidyapith, Banasthali	2,17,000	2 years
135.	DST/INT/JAP/ P-61/2008	Screening and characterization of active constituents from an antidiabetic plant <i>Gymnema montanum</i> and its pharmacological evaluation using genomic and proteomic approach	Dr.P. Rajaguru, Bharathidasan Univ., Tiruchirappalli	2,58,500	2 Years
136.	DST/INT/JAP/ P-62/2008	Antiallergic potential of Indian Traditional Plants	Dr. P. K Mukherjee, Jadavpur Univ.,	6,54,000	2 years
137.	DST/INT/JAP/ P-63/2008	Development of stress resistant legumes for a sustainable agricultural production and nutrition: Use of molecular markers for identification of resistance genes	Dr. Pawan K. Jaiwal, M.D.Univ., Rohtak	4,04,300	2 years
138.	DST/INT/JAP/ P-65/2008	X-Ray Astronomy with Indian and Japanese Satellites	Prof. Kulinder Pal Singh Tata Institute of Fundamental Research, Mumbai	3,72,000	2 years
139.	DST/INT/JAP/ P-66/2008	Photometric Studies of very Young Open Clusters Associated with HII Regions	Dr. Anil K. Pandey Aryabhata Research Institute of Observational Sciences, Nainital	2,08,000	2 years
140.	DST/INT/JAP/ P-67/2008	Production of Liquid Fuels by Selective FT Synthesis with Novel Mesoporous Smectite Catalysts	Prof. Bhalchandra M. Bhangage, Institute of Chemical Technology, Mumbai	3,03,000	2 years
Partner Country: Australia					
141.	DST/INT/AUS/ P-13/08	Re-establish trace gas monitoring of climate-forcing gases at Cape Rama, India	Dr. D V Borole, National Institute of Oceanography, Geological Oceanography Division, Dona Paula, Goa	15,38,460	3 yrs

142.	DST/INT/AUS/ P-14/08	Development of the Giant Metrewave Radio Telescope for pulsar astrophysics and Square Kilometer Array demonstration	Prof. Yashwant Gupta, National Center for Radio Astrophysics Tata Institute of Fundamental Research, NCRA, Pune University Campus, Post Bag No.3, Ganeshkhind, Pune	8,00,000	3 yrs
143.	DST/INT/AUS/ P-16/08	Fluid flow and lubrication on the nanometer scale	Prof. Sanjay Biswas, Department of Mechanical Engineering, Indian Institute of Science, Bangalore	26,40,440	3 yrs
144.	DST/INT/AUS/ P-16A/08	Hybrid Magnetoelectric Nanostructures : Optimizing interface coupling for enhanced functionality	Dr. Satishchandra B. Ogale, National Chemical Laboratory, Dr. Homi Bhabha Road, Pune	32,28,390	3 yrs
145.	DST/INT/AUS/ P-17/08	Identification of molecular markers closely linked with stem rust resistance genes in wheat	Dr. Vidya Gupta, National Chemical Laboratory, Dr. Homi Bhabha Road, Pune	20,92,200	3 yrs
146.	DST/INT/AUS/ P-18/08	Catalytic conversion of carbohydrates as renewable raw materials to key platform chemicals using novel metal supported mesoporous materials	Dr. P. Selvam Prof. B Viswanathan National Centre for Catalysis Research, Department of Chemistry, IIT Madras	31,51,280	3 yrs
147.	DST/INT/AUS/ P-19/08	Technical and economic assessment of improved Solar Photovoltaic Linear Concentrators and determination of market potential in India	Dr. L. Suganthi, Department of Management Studies, College of Engineering, Anna University, Chennai-	46,36,280	3 yrs
148.	DST/INT/AUS/ Proj/T-2/08	Nano-composite Materials for clean energy: Energy Generation, Storage, Saving and safety	Prof. M K Sanyal, Saha Institute of Nuclear Physics , Kolkata	2.5/- Crore	3 yrs
149.	DST/INT/AUS/ IITM/08	Protecting Critical Infrastructure from Denial of Service Attacks: Tools, Technology and Policy	Prof. S V Raghvan IIT, Madras and Society for Electronic Transaction and security	1,32,05,000	3 yrs

Partner Country: UK

150.	DST/UKERI/SA / P-1/2009	Tunable and Hierarchical Self-organized meso-structuring using Electric Fields	Prof. Ashutosh Sharma, Department of Chemical Engineering, Indian Institute of Technology, Kanpur	7,36,311	3 yrs
151.	DST/UKERI/SA / P-2/2009	Spin-wave and domain wall dynamics in vertical magnetic nanowires	Prof. Anjan Barman, Department of Physics, Indian Institute of Technology, Hauz Khas, New Delhi	14,67,900	3 yrs

152.	DST/UKERI/SA / P-3/2009	Fabrication and scanning tunnelling microscopy characterisation of ZnO-based optoelectronic devices	Dr. Karunakar Nanda, Materials Research Centre, Indian Institute of Science, Bangalore	14,26,950	3 yrs
153.	DST/UKERI/SA / P-4/2009	Biliary Duct Stem Cells for Cell Replacement Therapy in Diabetes	Dr. Anandwardhan Hardikar, Department of Stem Cells and Diabetes Section, National Centre for Cell Science (NCCS), Ganeshkhind Road, Pune	21,99,750	3 yrs
154.	DST/UKERI/SA / P-9/2009	Gene expression and chromatin organisation during stem cell cardiovascular differentiation.	Prof. VijayRaghavan K, National Centre for Biological Sciences, UAS-GKVK Campus Bald Bellary Road, Bangalore	15,92,325	3 yrs
155.	DST/UKERI/SA / P-10/2009	CELLULAR FATE OF NOVEL NANOMATERIALS FOR THERAPEUTICS AND CONSUMER PRODUCTS	Dr. Alok Dhawan, Developmental Toxicology Division, Industrial Toxicology Research Centre, Mahatma Gandhi Marg, Lucknow	20,53,380	3 yrs
156.	DST/UKERI/SA / P-2A/2009	Zinc oxide nanowires and nanostructured films for novel device applications	Dr. Neeraj Khare, Department of Physics, Indian Institute of Technology, Hauz Khas, New Delhi	26,88,000	3 yrs
157.	DST/UKERI/SA / P-7/2009	Quantum logic with semiconductor quantum dots	Dr. Venu Gopal Achanta, Department of Condensed Matter Physics & Material Sciences, Tata Institute of Fundamental Research, Dr.Homi Bhabha Road, Colaba, Mumbai	18,79,572	3 yrs
158.	DST/UKERI/SA / P-8/2009	NanoBALLS: Dynamical interaction of nanoparticles	Dr. Musuvathi S Bobji, Department of Mechanical Engineering, Indian Institute of Science, CV Raman Road, Bangalore	16,63,200	3 yrs
159.	DST/UKERI/SA / P-11/2009	Sensitized nanoparticles as new hybrid photo-driven devices	Dr Amitiva Das, Analytical Science Discipline, Central Salt and Marine Chemicals Research Institution, G.B.Marg, Bhavnagar	20,38,575	3 yrs
160.	DST/UKERI/SA / P-11A/2009	Transceiver Chip for the Next Generation of Networks in Telecommunications	Prof. Animesh Biswas, Department of Electrical Engineering, Indian Institute of Technology Kanpur, Kanpur	19,43,550	3 yrs