

International Division
List of Approved Projects during FY 2012-13

| Sl. No | File No. & Date of Sanction | Broad Area | Title of the Project | Indian Coordinator with full contact details | Amount Sanctioned In Rs. | Duration |
|-----------------------------------|--|---|--|---|--------------------------|----------|
| Partner Country: Australia | | | | | | |
| 1. | DST/INT/AUS/P-48/2012 18.09.2012 | Material Science including Nanotechnology | Topological Defects In Non-Collinear Multiferroics: A Nanodomain Approach To Multifunctionality | Dr. Satishchandra B. Ogale, Physical chemistry Division, National Chemical Laboratory, Pashan, Pune-411008 | 36,02,940/- | 3 years |
| 2. | DST/INT/AUS/P-49/2012 10.09.2012 | Material Science including Nanotechnology | Magnetron Sputtering of Nanolaminates with Materials Designed and Engineered Properties | Dr. V.K. Srivastava, Dept. of Mechanical Engineering Banaras Hindu University Institute of Technology, Varanasi - 221005 | 39,36,600/- | 3 years |
| 3. | DST/INT/AUS/P-50/2012 23.01.2013 | Material Science including Nanotechnology | A New Route To Ultra-High Quality Hole-Based Nanoelectronic Devices | Dr. Kantimay Das Gupta, Dept. of Physics Indian Institute of Technology Bombay Powai, Mumbai 400076 | 43,48,000/- | 3 years |
| 4. | DST/INT/AUS/P-51/2012 29.10.2012 | Environmental Science including Climate Change Research | Development of Innovative Spentwash Treatment Systems and Resource Recovery Options for Distillery Application | Dr. Himanshu Joshi, Dept. of Hydrology Indian Institute of Technology Roorkee – 247667 | 67,98,400/- | 3 years |
| 5. | DST/INT/AUS/P-52/2012 29.10.2012 | Environmental Science including Climate Change Research | Novel Approach for Processing Hazardous Electronic Waste | Prof. B. K. Mishra Institute of Minerals and Materials Technology, Council of Scientific and Industrial research, Bhubaneswar - 751 013 | 80,51,000/- | 3 years |

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| 6. | DST/INT/AUS/ P-53/2012 29.10.2012 | Material Science including Nanotechnology | A Nanocomposite Material for High- power Lithium Battery Cathodes | Professor P. SELVAM Department of Chemistry National Centre for Catalysis Research & Indian Institute of Technology-Madras, Chennai 600 036 | 35,15,264/- | 3 years |
| 7. | DST/INT/AUS/ P-54/2012 12.09.2012 | Material Science including Nanotechnology | Functionalized Hierarchical Nano composites Materials for Synthetic and Renewable fuels production | Dr. Nagabhatla Viswanadham, Catalysis and Conversion Process Division, Indian Institute of Petroleum, Haridwar Road, Mohkampur Dehradun-248005 | 37,84,800/- | 2 years |

Partner Country: Argentina

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| 8. | INT/Argentin a/P-1/12 19/02/2013 | Chemistry | Two-Photon Absorbing Ruthenium- Fluorophore Complexes as an Activatable Caged Fluorescent Probe | Prof N Sekar, Department of Dyestuff Technology, Institute of Chemical Technology, N. P. Marg, Matunga, Mumbai, 400019 Tel:91 22 3361 1111/ 2707 Fax:91 22 3361 1020 | 8,79,000/- | 3 Years |
| 9. | INT/Argentin a/P-2/12 19/02/2013 | Biotechnology | Use of Bioactive Peptides from Lactic Acid Bacteria in the Development of Functional Food | Dr. H G Ramachandra Rao, Department of Dairy Technology, Dairy Science College, Hebbal, Bangalore, , 560024 Tel:080-23412654 Fax:080-23414848 | 9,45,000/- | 3 Years |
| 10. | INT/Argentin a/P-3/12 29/02/2013 | Computer Science | Emotionnal speech processing using source, system and suprasegmental features | Dr. S Dandapat, Indian Insitute of Technology, Guwahati, , 781039 Tel:0361-2582505 Fax:0361-2582542 | 11,85,000/- | 3 Years |

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| 11. | INT/Argentina/P-4/12 25/02/2013 | Medical | Investigation on the ability of the Recombinant anti-hCG vaccine and Monoclonal antibodies to prevent and treat Obesity, Polycystic ovaries, Pituitary adenomas, Breast and Ovarian Cancers in Transgenic mice hypersecreting hCG | Prof G P Talwar, Talwar Research Foundation E8, Neb Valley, New Delhi, , 110068 Tel:011-29531028 Fax:011-29536768 | 7,20,000/- | 3 Years |
| 12. | INT/Argentina/P-5/12 22/02/2013 | Biotechnology | Deciphering the transcriptional and miRNA mediated control of calcium dependent protein kinases (StCDPKs) in potato (Solanum tuberosum L.) tuber development | Dr. Anjan Kumar Banerjee, Indian Institute of Science, Education and Research IISER, Sutarwadi, Pashan, Pune, Maharashtra, 411008 Tel:020-25908001 Fax:020-25899790 | 10,37,500/- | 3 Years |

Partner Country: Bulgaria

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| 13. | INT/BULGARIA/P-4/12 19/02/2013 | Physics | Investigation of Photostimulation Effects in Nano-Structured Liquid Crystals | Dr. S. Krishna Prasad, Centre for Soft Matter Research, PO Box 1329, Jalahalli, Bangalore, 560 013 Tel:8028381119 | 8,25,000/- | 3 Years |
| 14. | INT/BULGARIA/P-8/12 07/02/2013 | Physics | Search for low-dimensional chaos in time series of accreting objects | Prof. Banibrata Mukhopadhyay, Department of Physics, Indian Institute of Science, Bangalore, Tel:8023607704 | 12,15,000/- | 3 Years |

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| 15. | INT/BULGARIA/P-10/12 25/03/2013 | Materials | New materials as a sorbents for separation and preconcentration of trace pollutants from food, beverages and environmental samples | Dr. K Rama Mohan, Environmental Geochemistry Division, National Geophysical Research Institute, Uppal Road, Hyderabad, 500 007 Tel:4023434700 | 8,04,000/- | 3 Years |
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Partner Country: France

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| 16. | INT/FRANCE/IFCAM 07-12-2012 | Mathematics | Establishment of the Indo-French Centre for Applied Mathematics at IISc, Bangalore | Prof. G Rangarajan, Department of Mathematics, Indian Institute of Science, Bangalore | 5,65,60,000/- | 4 Years |
| 17. | INT/FRANCE/INRA | Water & Climate Change | Adaptation of irrigated agriculture to climate change | Dr. Muddu Sekhar, Department of Civil Engineering, Indian Institute of Science, Bangalore | 94,60,468/- | 3 Years |

Partner Country: Germany

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| 18. | INT/FRG/DAD/P-215/2012 10-09-2012 | ICT (Computer Science) | Interacting networks to model and control dynamics of complex systems | Dr. G Ambika, Associate Professor, Indian Institute of Science Education and Research, Sai Trinity, Sutarwadi, Pashan, Pune-411021 | 3,51,000/- | 2 Years |
| 19. | INT/FRG/DAD/P-216/2012 10-09-2012 | Geology | Mitigation strategies to counteract seawater intrusion | Dr. Elango Lakshmanan, Professor, Deptt. of Geology, Anna University, Chennai-600025 | 3,24,000/- | 2 Years |

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| 20. | INT/FRG/DA AD/P- 217/2012 10-09-2012 | Life Sciences | Understanding the role of micro RNA (miRNA) mediated gene regulation during folliculogenesis & luteinization: a comparative study in buffalo & cow | Singh Dheer, Dr., Sr. Scientist, Molecular Endocrinology Lab., Animal Biochemistry Division, National Dairy Research Institute (NDRI), Karnal 132001, Haryana | 8,25,000/- | 2 Years |
| 21. | INT/FRG/DA AD/P- 218/2012 11-09-2012 | Biotechnology | Construction of cellulose degrading Corynebacterium glutamicum strains for direct utilization of agroresidual biomass for the production of amino acids and polyamines | Dr. K.Madhavan Nampoothiri, Pr. Scientist, Biotechnology Division, CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Industrial Estate (PO), Pappanamcode, Trivandrum-695 019, Kerala | 3,40,000/- | 2 Years |
| 22. | INT/FRG/DA AD/P- 219/2012 11-09-2012 | Physics | Study of competing intra- and inter-layer effects in ferromagnetic/non-magnetic multilayers | Dr. Subhankar Bedanta, Assistant Professor, School of Physics, National Institute of Science, Education & Research, Po-Sainik School, Bhubaneswar-751005, Orissa | 3,86,000/- | 2 Years |
| 23. | INT/FRG/DA AD/P- 220/2012 11-09-2012 | Physics | Study on the properties of dipolar Bose-Einstein condensates within & beyond mean field description | Dr. Paulsamy Muruganandam, Asst. Prof., Deptt. of Physics, Bharathidasan University, Palkalaiperur, Tiruchirapalli-620024, Tamil Nadu | 4,80,800/- | 2 Years |

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| 24. | INT/FRG/DA AD/P- 221/2012 11-09-2012 | Physics | Regenerated fiber Bragg gratings as sensors for structural health monitoring at extreme conditions | Dr. Somnath Bandyopadhyay, Principal Scientist, Fiber Optics and Photonics Division, CSIR-Central Glass and Ceramic Research Institute, 196, Sc. Mullick Road, Kolkata-700032 | 4,92,000/- | 2 Years |
| 25. | INT/FRG/DA AD/P- 222/2012 11-09-2012 | Physics | Nanostructuring & Grain Boundary Engineering in Bulk Thermoelectric Material for high Temperature Applications | Dr. Ramesh Chandra Mallik, Lecturer, Department of Physics, Indian Institute of Science, Bangalore-560012 | 5,11,400/- | 2 Years |
| 26. | INT/FRG/DA AD/P- 223/2012 11-09-2012 | Physics | Search for a formally and computationally efficient multi-reference coupled-cluster theory | Prof. Debashis Mukherjee, Emeritus Chair Professor, Raman Center for Atomic, Molecular and Optical Sciences, Indian Association for the Cultivation of Science, Kolkata-700032 | 4,25,000/- | 2 Years |
| 27. | INT/FRG/DA AD/P- 224/2012 11-09-2012 | Material Sciences | Modeling multiferroic materials | Dr. Priya Mahadevan, Associate Professor, Department of Material Science, S.N. Bose National Centre for Basic Sciences, JD Block, Sector-3, Salt Lake, Kolkata-700098 | 4,50,000/- | 2 Years |

Partner Country: Hungary

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| 28. | INT/HUN/P-04/2012 27-09-2012 | Physics | Development of tungsten and molybdenum oxide thin films for use in gas sensors and electro chromic devices | Prof. A. Subramanyam, Department of Physics, Indian Institute of Technology, Madras | 7,00,800/- | 2 years |
| 29. | INT/HUN/P-06/2012 03-10-2012 | Physics | Development & characterization of bulk aluminium-alumina (Al-Al ₂ O ₃) nano-composites- study of their nano-sintering with respect to densification & grain growth | Dr. Ajay Dhar , National Physical Laboratory. K.S. Krishnan Road, New Delhi-110070 | 5,98,800/- | 2 Years |

Partner Country: Ireland

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| 30. | DST/INT/IRE/P-6/2011 | Bio | Design synthesis and biological evaluation of DNA targeting heterocyclic guandines as Anticancer agents | Dr. Ranjana Aggarwal , Department of Chemistry, Kurukshetra University, Kurukshetra-136 119 | 4,94,400/- | 2 Years |
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Partner Country: Italy

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| 31. | INT/ITALY/P-1/2012 (ER) 25-05-2012 | Information & Communication Technology | New perspectives for computational social science | Dr. Animesh Mukherjee Indian Institute of Technology, Kharagpur | 4,50,000/- | 3 Years |
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| 32. | INT/ITALY/P -2/2012 (ER) 25-05-2012 | Materials Science | From Small Molecules to Advanced Molecular Materials: Transport and Transfer Properties | Dr. Swapan Pati Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) | 4,50,000/- | 3 Years |
| 33. | INT/ITALY/P -3/2012 (ER) 25-05-2012 | Astrophysics | Probing General Relativity in the vicinity of Black Holes using ASTROSAT | Dr. Dipankar Bhattacharya IUCAA, Pune University Campus, Pune | 4,50,000/- | 3 Years |
| 34. | INT/ITALY/P -4/2012 (ER) 25-05-2012 | Nanomaterials | Development of body armour materials using silica nanoparticles | Dr. Abhijit Majumdar Indian Institute of Technology Hauz Khas | 4,50,000/- | 3 Years |
| 35. | INT/ITALY/P -5/2012 (ER) 11-07-2012 | Information & Communication Technology | Cerebellum inspired approach for pattern classification in robots | Dr. Shyam Diwakar Mukundanunny, Amrita Institute of Medical Sciences, Cochi | 4,50,000/- | 3 Years |
| 36. | INT/ITALY/P -7/2012 (ER) 28-05-2012 | Physics | Simulation, NTME Calculation and half life measurement for Double Beta Decay of Sn nuclei | Prof. PK Raina Indian Institute of Technology Ropar | 4,50,000/- | 3 Years |
| 37. | INT/ITALY/P -8/2012 (ER) 11-07-2012 | Energy and Environment | Development of Nano-catalysts and Photo- catalysts for hydrogen production and water purification | Prof. Dushyant C. Kothari University of Mumbai, Mumbai | 4,50,000/- | 3 Years |
| 38. | INT/ITALY/P -9/2012 (ER) 14-08-2012 | Health & Medical Sciences | Pharmacogeno mics of response to lithium treatment | Dr. Sanjeev Jain, National Institute of Mental Health and Neurosciences | 4,50,000/- | 3 Years |
| 39. | INT/ITALY/P - 10/2012 (ER) 14-08-2012 | Materials Science | Study of self- healing ability of advanced fiber reinforced cement based materials | Dr. Ravindra Gettu, Indian Institute of Technology Madras Chennai | 4,50,000/- | 3 Years |

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| 40. | INT/ITALY/P - 11/2012 (ER) 13-08-2012 | Nonmaterial | Computer simulations and NMR investigations of responsive materials for photonics applications | Dr. Vanka Sastry University of Hyderabad Hyderabad | 4,50,000/- | 3 Years |
| 41. | INT/ITALY/P - 12/2012 (ER) 13-08-2012 | Health & Medical Sciences | Engineering cell selectivity in antimicrobial peptides for the development of novel antibiotic drugs | Dr. Jimut Kanti Ghosh CSIR Central Drug Research Institute, Lucknow | 4,50,000/- | 3 Years |
| 42. | INT/ITALY/P -13/2012 (SP- PhT.1/89) 14-08-2012 | Physics | Access to the beamlines of the Elettra Synchrotron Light Laboratory by the Indian institutions previously identified by the Department of Science & Technology (DST) of the Indian Government | Prof. DD Sarma, Indian Institute of Science, Bangalore | 52,20,000/- | 1 year |
| 43. | INT/ITALY/P - 14/2012 (SP) 13-08-2012 | NAM | Investigating local structure and magnetism of Co nano-structures | Dr. C Balasubramanian FCIPT – Institute for Plasma Research, Gandhinagar | 35,48,000/- | 3 Years |
| 44. | INT/ITALY/P - 15/2012 (SP) 24-08-2012 | HBM | Design and development of new antimalarial leads for chloroquine-resistant Plasmodium strains. | Dr. Dilip Dhavale University of Pune, Pune | 20,56,880/- | 2 years |

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| 45. | INT/ITALY/P - 16/2012 (SP) 24-08-2012 | Health & Medical Sciences | Identifying causal pathways mediating obstructive sleep apnea (OSA) and obesity | Dr. Achal Gulati, Maulana Azad Medical College, New Delhi | 29,86,320/- | 2 years |
| 46. | INT/ITALY/I T PAR- III/Compute r Sc/2013 20-02-2013 | Computer Science | Development of the Universal Knowledge Core (UKC), a large scale multilingual faceted knowledge organized resource | Prof. A. R. D. Prasad, Indian Statistical Institute, Bangalore | 56,85,000/- | 3 Years |
| 47. | INT/ITALY/I T PAR- III/COG- P(1)/2013 26-02-2013 | Cognitive Science | Flexible perception and action in the context of naturalistic scenes | Prof. Narayanan Srinivasan Centre of Behavioural and Cognitive Sciences University of Allahabad Allahabad 211002 Tel +915322460738 +915322421429 Fax: +915322460738 E-mail: nsrini@cbcs.ac.in | 29,09,400/- | 3 Years |
| 48. | INT/ITALY/I T PAR- III/COG- P(2)/2013 07-03-2013 | Cognitive Science | Contextual influences on object categorization | Dr. SP Arun Assistant Professor Indian Institute of Science, Bangalore Tel: +91 80 2293 3436 Fax: +91 80 2360 3323 E-mail: sparun@cns.iiscernet.in | 15,39,000/- | 3 Years |

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| 49. | INT/ITALY/I T PAR- III/COG- P(3)/2013 07-03-2013 | Cognitive Science | Inhibitory control in the planning of sequential movements | Prof. Aditya Murthy Associate Professor Centre for Neurosciences Indian Institute of Science, Bangalore Tel: 080-2293-3434 E-mail: aditya@cns.iisc.ernet.in | 20,25,000/- | 3 Years |
| 50. | INT/ITALY/I T PAR- III/COG- P(4)/2013 13-03-2013 | Cognitive Science | Neuroplasticity and Language: Anatomical Correlates of Vedic Recitation | Dr. Nandini C. Singh Associate Professor National Brain Research Centre NH-8, Nainwal Mode, Manesar 122 050 Tel: 0124 284 5333 E-mail: nandini@nbrc.ac.in | 31,65,000/- | 3 Years |
| Partner Country: Japan | | | | | | |
| 51. | DST/INT/JSPS /P-130/12 12.06.2012 | Advanced Materials including Polymers & Nanomaterials | Development of homojunction carbon solar cell | Dr. Maheshwar Sharon NSNR Center for Nanotechnology & Bionanotechnology SICES College | 4,59,000/- | 2 years |
| 52. | DST/INT/JSPS /P-131/12 14.05.2012 | Advanced Materials including Polymers & Nanomaterials | Fabrication of Tandem Structured Thermoelectric Devices using SiGe Related Alloy Semiconductors | Dr. Sridharan Moorthy Babu Crystal Growth Centre Anna University Sardar Patel Road Chennai - 600 025 | 4,72,500/- | 2 years |

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| 53. | DST/INT/JSPS /P-132/12 03.05.2012 | Advanced Materials including Polymers & Nanomaterials | Development of new anode materials for next generation Li ion batteries by electrodeposition of Si on the inner-surface of nanospace carbon. | Dr. Indrajit Mukhopadhyay School of Solar Energy Pandit Deendayal Petroleum University Raisan, Gandhinagar, Gujarat-382 007 | 3,00,000/- | 2 years |
| 54. | DST/INT/JSPS /P-133/12 03.05.2012 | Advanced Materials including Polymers & Nanomaterials | Creation of heterogeneous pinning in Iron Pnictides and Cuprate superconductors by introducing nanopatterned pins | Dr. Satyajit Banerjee Dept. of Physics Indian Institute of Technology Kanpur Kanpur – 208016, U. P. | 2,57,000/- | 2 years |
| 55. | DST/INT/JSPS /P-134/12 09.05.2012 | Advanced Materials including Polymers & Nanomaterials | Construction of Advanced Nano-Spintronics Devices based on Self-Organized Functional Oxide Nano Super-Structures | Dr. Saket Asthana Department of Physics Indian Institute of Technology, Hyderabad, Ordnance Factory Estate Campus, Yeddumailaram - 502205, Andhra Pradesh | 3,42,000/- | 2 years |
| 56. | DST/INT/JSPS /P-135/12 09.05.2012 | Advanced Materials including Polymers & Nanomaterials | Quantum dot conjugated single walled carbon nanotubes for imaging and therapy | Dr. R..S. Jayasree Biophotonics and Imaging Laboratory, Biomedical Technology Wing Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, Poojappura. P. O. Trivandrum, 695012 | 3,44,000/- | 2 years |
| 57. | DST/INT/JSPS /P-136/12 28.05.2012 | Astronomical and Space Science | A Study of Supernovae in the Nearby Universe – Building Blocks for the High Redshift Universe | Dr. G.C. Anupama Indian Institute of Astrophysics II Block, Koramangala Bangalore 560 034 | 4,46,000/- | 2 years |

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| 58. | DST/INT/JSPS /P-137/12 09.05.2012 | Astronomical and Space Science | Empirical study on global circulation of magnetospheric plasma during geomagnetic storms and their effects on low latitude and equatorial ionosphere | Dr. (Mrs).B.Veenadhari Dept of Science and Technology Indian Institute of Geomagnetism Kalamboli Highway, New Panvel Plot No.5, Sector 18 Navi Mumbai – 410218, Maharashtra | 3,46,000/- | 2 years |
| 59. | DST/INT/JSPS /P-138/12 16.05.2012 | Manufacturing Sciences | Utilization of wasted groundnut shell for the development of natural polymeric composites and their Mechanical properties, drilling | Dr. Janakarajan Ramkumar Dept of Mechanical Engineering I.I.T. Kanpur Kalyanpur 208016 | 4,12,000/- | 2 years |
| 60. | DST/INT/JSPS /P-139/12 16.05.2012 | Modern Biology & Biotechnology | Cloning and Characterization of STOP1 transcription factor from Cowpea and its functional analysis | Dr. Sanjib Kumar Panda Dept of Life Science & Bioinformatics, Assam University, Silchar-788011, Assam, | 5,40,000/- | 2 years |
| 61. | DST/INT/JSPS /P-140/12 02.07.2012 | Modern Biology & Biotechnology | Genetic Studies on Stevens Johnson Syndrome (SJS) | Dr. Chitra Kannabiran Kallam Anji Reddy Molecular Genetics Laboratory Hyderabad Eye Research Foundation, L.V. Prasad Eye Institute (LVPEI) L.V. Prasad Marg Banjara Hills, Hyderabad -500 034 | 3,40,000/- | 2 years |
| 62. | DST/INT/JSPS /P-141/12 25.06.2012 | Modern Biology & Biotechnology | Microbial production of plastic degrading enzymes for polymer monomerization | Dr (Mrs) N.R. Kamini Department of Biotechnology Central Leather Research Institute Chennai -600 020 | 4,34,000/- | 2 years |

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| 63. | DST/INT/JSPS /P-142/12 25.06.2012 | Modern Biology & Biotechnology | Elucidation of mechanism of action of withaferin A using highly functional affinity beads | Dr. Shanthy Sundaram Centre for Biotechnology Nehru Science Centre, University of Allahabad Allahabad-211002, U.P. | 4,34,000/- | 2 years |
| 64. | DST/INT/JSPS /P-143/12 09.05.2012 | Modern Biology & Biotechnology | Genetic and genomic basis of the evolution of bombycid and saturniid silkmoths | Dr. J. Nagaraju Laboratory of Molecular Genetics Centre for DNA Fingerprinting and Diagnostics (CDFD) Bldg.7, Gruhakalpa, 5-4-399/B, Nampally Hyderabad-500 001, Andhra Pradesh, | 4,46,000/- | 2 years |
| 65. | DST/INT/JSPS /P-144/12 18.03.2013 | Modern Biology & Biotechnology | Antarctic moss diversity and their screening for biotechnological potentials | Dr. Shiv Mohan Singh Polar Biology, National Centre for Antarctic & Ocean Research Ministry of Earth Sciences, Govt. of India Headland Sada, Vasco Da Gama, Goa-403804 | 4,50,000/- | 2 years |
| 66. | DST/INT/JSPS /P-145/12 02.07.2012 | Modern Biology & Biotechnology | Investigation of ligand induced activation mechanism of Adenosine 2A receptor by ATR-FTIR spectroscopy | Dr. Tushar Kanti Maiti Regional Centre for Biotechnology, 180 Udyog Vihar Phase I Gurgaon, Haryana, 122016 | 4,48,000/- | 2 years |

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| 67. | DST/INT/JSPS /P-146/12 28.05.2012 | Modern Biology & Biotechnology | Elucidation of Mechanical Basis of Plant Gene Regulation for Promotion of Plant Utilization | Dr. Sanjay Kapoor Interdisciplinary Center for Plant Genomics Dept of Plant Molecular Biology University of Delhi South Campus New Delhi 110021 | 3,48,000/- | 2 years |
| 68. | DST/INT/JSPS /P-147/12 25.06.2012 | Modern Biology & Biotechnology | Population Based Human Genetic Variations and Impact on Radiation Effect | Prof. K. Satyamoorthy Division of Biotechnology Manipal University Manipal Life Sciences Centre | 3,50,032/- | 2 years |
| 69. | DST/INT/JSPS /P-148/12 02.07.2012 | Molecular & Supramolecular Sciences | Development of new selenium based antioxidant | Dr K. Indira Priyadarsini Radiation & Photochemistry Division Bhabha Atomic Research Centre Trombay, Mumbai- 400085 | 6,32,000/- | 2 years |
| 70. | DST/INT/JSPS /P-149/12 02.07.2012 | Surface and Interface Science including Catalysis | Catalytic transformation of biomass-derived sugars to renewable chemicals | Dr. Paresh Laxmikant Dhepe Catalysis and Inorganic Chemistry Division National Chemical Laboratory Room No. 289, Main building, | 4,12,000/- | 2 years |
| 71. | DST/INT/JSPS /P-150/12 17.09.2012 | Surface and Interface Science including Catalysis | Catalysing Soot- NOx Reaction without Precious Metals: Mixed Oxide Catalysts for Diesel Exhaust Emission Control | Dr. Nitin K. Labhasetwar Environmental Materials Division National Environmental Engineering Research Institute | 5,46,000/- | 2 years |

Partner Country: Mexico

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| 72. | INT/MEXICO /P-1/12 19/02/2013 | Earth Sciences | Rapid Estimation of Centroid Moment Tensor Solutions in North East India | Dr.D Srinagesh, National Geophysical Research Institute, Uppal Road, Hyderabad - 500007 | 13,65,000/- | 3 Years |
| 73. | INT/MEXICO /P-2/12 21/02/2013 | Seismology | Deterministic Modeling of Long-Period Ground Motions From Megathrust Earthquakes in Central Himalayas and South-Central Mexico | Dr. S.S Teotia, Department of Physics, Kurukshetra University, Kurukshetra | 13,26,000/- | 3 Years |
| 74. | INT/MEXICO /P-3/12 11/02//2013 | Nano Technology | Low-Dimensional Hybrid Hierarchical Nanoporous Materials for Enviornmental Applications | Dr. Paritosh Mohanty, Department of Paper Technology, IIT, Roorkee, Saharanpur Campus, Saharanpur | 9,00,000/- | 3 Years |
| 75. | INT/MEXICO /P-5/12 12/02//2013 | Nano Technology | Synthesis, Optical and Photothermal Characterisation of Metallic Nano Particles for Biomedical Applications | Dr. Murali Krishna Chilakapati, Advanced Center for Treatment, Research and Education in Cancer (ACTREC), Tata Memorial Center (TMC), Kharghar,, Sec-22, Navi Mumbai | 18,15,000/- | 3 Years |
| 76. | INT/MEXICO /P-6/12 12/02/2013 | Bio Physics | Nonlinear Analysis of the Ion Transport Through A Single Channel in the Lipidic Membrane | Professor Punit Parmananda, Department of Physics, Indian Institute of Technology, Powai, Mumbai | 11,07,000/- | 3 Years |

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| 77. | INT/MEXICO /P-7/12 11/02/2013 | Biotechnology | Biotechnological Potential of Agricultural Wastes for Making Commodity Chemicals of Health Benefits | Dr. K Madhavan Nampoothiri, National Institute for Interdisciplinary Science and Technology (NIIST), CSIR Industrial estate (PO), Trivandrum | 8,25,000/- | 3 Years |
| 78. | INT/MEXICO /P-8/12 17/12/2012 | Synthetic Chemistry | Synthesis of Diversely Substituted Indoles by Electrophilic Cyclization and Cu/Pd-Catalyzed Coupling Reactions: Potential Anticancer Small Molecules | Dr. Akhilesh K Verma, Department of Chemistry, North Campus University of Delhi, Delhi | 29,28,000/- | 3 Years |
| 79. | INT/MEXICO /P-9/12 19/02/2013 | Energy | Photovoltaic Study on Mixed Metal Chalcogenide Absorbing Nanostructures | Professor Rajaram Sakharam Mane, School of Physical Sciences, Swami Ramanand Teerath Marathawada University, Dnyanteerth,, Vishnupuri Nanded | 8,70,000/- | 3 Years |
| 80. | INT/MEXICO /P-10/12 01/03/2013 | Physics | Development of Phosphate and Tellurite Based Oxyfluoride Glasses and Transparent Nanocrystalline Glass-Ceramics Doped With Lanthanide Ions for Visible and Near infrared Fiber Lasers | Professor C.K Jayasankar, Department of Physics, S.V University, Tirupati | 20,85,000/- | 3 Years |
| 81. | INT/MEXICO /P-11/12 22/02/2013 | Maths | Diophantine Equations With Product of integers in Airthmetic Progressions | Professor Shanta Laishram, Indian Statistical Institute, 7 SJS Sansanwal Marg, New Delhi | 7,05,000/- | 3 Years |

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| 82. | INT/MEXICO /P-12/12 28/01/2013 | Chemistry | Dynamics of Evolution of Temperature and Frequency Dependent Response Properties Using Non-Iterative Density Perturbation theory | Dr. Sourav Pal, National Chemical Laboratory, Dr. Homi Bhabha Road, Pune | 10,65,000/- | 3 Years |
| 83. | INT/MEXICO /P-14/12 01/02/2013 | Energy | Development of Non-Platinum Based Catalyst for Acid and Alkaline Fuel Cells | Dr. R Manoharan, PSG Institute of Advanced Studies Peelamedu, Avinashi Road, Coimbatore, | 15,25,000/- | 3 Years |

Partner Country: Norway

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| 84. | INT/NOR/RC N/P-04/2013 19-03-2013 | Geology | Water related effects of changes in glacier mass balance and river runoff in western Himalaya, India: past, present and future (GLACINDIA) | Prof. AL. Ramanathan, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi – 110067 | 34,49,880/- | 3 Years |
| 85. | INT/NOR/RC N/P-05/2013 19-03-2013 | Geology | INDNOR: Hydrologic sensitivity to Cryosphere-Aerosol interaction in Mountain Processes (HyCAMP) | Dr. Mukesh Sharma, Deptt. of Civil Engg., Indian Institute of Technology Kanpur, Kanpur-208016 | 38,49,760/- | 3 Years |

Partner Country: Russia

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| 86. | INT/RUS/RFB R/P-114 26-11-2012 | Maths | Algebraic varieties over fields & linear error correcting codes | Prof. Sudhir R. Ghorpade , Department of Mathematics, IIT Bombay, Powai, Mumbai-400076 | 17,40,400/- | 2 Years |
| 87. | INT/RUS/RFB R/P-115 30-11-2012 | Bio | Study of Physico-Technological principles of preparation of new magnetic nanostructures for multifunctional biomedical applications | Dr. Sunita Keshri , Associate Professor, Department of Applied Physics, Birla Institute of Technology, Mesra, Ranchi-835215, Jharkhand | 8,46,600/- | 2 Years |
| 88. | INT/RUS/RFB R/P-118 07-03-2013 | Astrophysics | Time resolved photometric and spectroscopic study of the chemically peculiar A-type stars | Dr. Santosh Joshi , Scientist-C, Aryabhata Research Institute of Observational Sciences (ARIES), Manora Peak, Nainital-263129 | 15,00,000/- | 2 Years |
| 89. | INT/RUS/RFB R/P-119 17-09-2012 | Chemistry | Structural, magnetic and transport properties of NiMnAl alloys and melt-spun ribbons | Dr. Ratnamala Chatterjee , Professor, Physics Department, IIT Delhi, HauzKhas, New Delhi-110016 | 15,22,262/- | 2 Years |
| 90. | INT/RUS/RFB R/P-120 20-11-2012 | Physics | Investigation on ultra-short-pulse petawatt laser interaction with plasmas and its applications for particle acceleration and generation of terahertz | Dr. Devki Nandan Gupta , Assistant Professor, Department of Physics and Astrophysics, North Campus, University of Delhi, Delhi-110007 | 7,88,340/- | 2 Years |

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| 91. | INT/RUS/RFB R/P-123 21-11-2012 | Bio | Biosensor systems based on nanosized materials for the detection of food or waterborne toxins | Prof. SoumyoMukherji , Department of Biosciences and Bioengg., IIT Bombay, Powai, Mumbai-400076 | 8,50,500/- | 2 Years |
| 92. | INT/RUS/RFB R/P-125 02-11-2012 | Chemistry | Development of Nano biosensor probe for detection of metal cautions | Dr. M.S. Gaur , Professor & Head, Department of Physics, Hindustan College of Science & Technology, Farah, Mathura-281122 (U.P.) | 15,33,360/- | 2 Years |
| 93. | INT/RUS/RFB R/P-126 26-11-2012 | Chemistry | Bio inspired nano materials as anode and cathode for new generation lithium-ion battery applications | Dr. SagarMitra , Assistant Professor, Department of Energy Science and Engineering, IIT Bombay, Powai, Mumbai 400076 | 15,57,000/- | 2 Years |
| 94. | INT/RUS/RFB R/P-128 10-10-2012 | Earth Science | Genesis of world class skarn deposits in SikhoteAlin Fold Belt, Far East (Russia) and Aravallicraton, Rajasthan (India) | Dr. M.S. Pandian , Professor, Department of Earth Sciences, Pondicherry University, Puducherry-605014 | 14,00,000/- | 2 Years |
| 95. | INT/RFBR/P- 131 26-09-2012 | Physics | Development and study of UHF ferrite thin films and composites for high-speed information processing system | Prof. Shiva Prasad , Indian Institute of Technology Powai, Mumbai-400076 | 23,06,860/- | 2 Years |

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| 96. | INT/RUS/RFB R/P-132 09-01-2013 | ICT | Countermeasures for Protocol Compliant Attacks in Mobile Adhoc Networks | Dr. Vijay Laxmi , Associate Professor, Department of Computer Engineering, Malaviya National Institute of Technology, Jaipur-302017 | 15,19,680/- | 2 Years |
| 97. | INT/RUS/RFB R/P-133 17-01-2013 | Computer | Mathematical models and morphological analysis based algorithms for image comparison and classification in computer vision systems | Dr. B.H. Bhaskar , Associate Professor, Department of Computer Science, Mangalore University, Mangalore, India | 20,27,500/- | 2 Years |
| 98. | INT/RUS/RFB R/P-133/1 17-01-2013 | Maths | Mathematical models and morphological analysis based algorithms for image comparison and classification in computer vision systems | Dr. B.H. Bhaskar , Associate Professor, Department of Computer Science, Mangalore University, Mangalore, India | 4,94,400/- | 2 Years |
| Partner Country: South Korea | | | | | | |
| 99. | INT/Korea/P-16 12-02-2013 | Materials Sciences | Simultaneous growth of semiconductor nano-wires and nanoparticles for microelectronic and sensor applications | Dr. Jyoti Prakash Kar, Assistant Professor, National Institute of Technology (NIT) Rourketa | 25,91,000/- | 3 Years |
| 100. | INT/Korea/P-17 | Materials Sciences | New nano-porous | Dr. M. S. Balathanigaimani, | 23,16,000/- | 3 Years |

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| | 06-02-2013 | | materials for natural gas storage application | Assistant Professor, Rajiv Gandhi Institute of Petroleum Technology, Rae Bareli | | |
| 101 | INT/Korea/P-18 12-02-2013 | Renewable Energy | Membrane less Microfluidic devices for rapid, automated and self-sustainable enzymatic biofuel cell with 3D electrodes for in vivo and ex vivo devices | Dr. Sanket Goel, University of Petroleum & Energy Studies, Dehradun, | 24,70,440/- | 3 Years |
| 102 | INT/Korea/P-20 13-03-2013 | Materials Sciences | Development of biofouling resistant membranes for wastewater treatment | Dr. G. Arthanareeswaran National Institute of Technology, Tiruchirappalli | 29,29,440/- | 3 Years |
| Partner Country: Slovenia | | | | | | |
| 103 | SLOVENIA/P-04/09 31-05-2012 | Materials | Preparation of textile filters for selective filtration of waste waters | Dr. Mangala Joshi, Department of Textile Technology, Indian Institute of Technology, Hauz Khas, Delhi-110016 | 7,87,500/- | 3 Years |
| Partner Country: Spain | | | | | | |
| 104 | DST/INT/Spain/P-26/2011 23.07.2012 | Health and Medical Research | Metabolomic applications to the identification of new therapeutic targets for tuberculosis treatment | Dr. Shekhar C. Mande Structural Biology Centre for DNA Fingerprinting and Diagnostics Tuljaiguda(Opp MJ Market) Nampally Hyderabad- 500001, AP | 44,37,682/- | 3 years |

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| 105 | DST/INT/Spain/P-27/2011 27.06.2012 | Health and Medical Research | Evaluation of Plasmodium falciparum erythrocyte binding antigens as malaria vaccine candidates | Dr. Deepak Gaur Malaria International Centre for genetic Engineering and Biotechnology (ICGEB) Aruna Asaf Ali Marg, New Delhi 110067 | 44,49,000/- | 3 years |
| 106 | DST/INT/Spain/P-35/2011 30.04.2012 | Information Technology | On-Chip Network Simulation Platform for Reliable, Accurate, and Fast System Co-Design of Embedded and Multicore Systems | Dr. Manoj S. Gaur Dept. Computer Engineering Malaviya National Institute of Technology, Jaipur-302017, Rajasthan | 28,57,060/- | 3 years |
| 107 | DST/INT/Spain/P-40/2011 12.04.2012 | | Solar Absorption Refrigeration Systems Operating with Ionic Liquids as Absorbents and Ammonia as Refrigerant | Dr. G. Venkatarathnam Dept. of Mechanical Engg. Indian Institute of Technology Madras Refrigeration and Air conditioning Laboratory | 48,91,800/- | 3 years |
| 108 | DST/INT/Spain/P-41/2011 27.06.2012 | Nano Technology | Delivering, triggering and imaging innate immune signals with pathogenmimetic nanostructures | Dr. Virander S. Chauhan Mammalian Biology: Malaria ICGEB, ICBEBCampus, P.O.Box:10504, Aruna Asaf Ali Marg, New Delhi -110 067 | 49,44,000/- | 3 years |
| 109 | DST/INT/Spain/P-42/2011 12.04.2012 | Nano Technology | Theoretical and computational investigation of molecular magnets and extended systems as candidates of exotic nanomaterials with useful properties | Dr. Sambhu Nath Datta Department of Chemistry Indian Institute of Technology Bombay, Powai, Mumbai PIN – 400 076 | 41,90,240 | 3 years |

Partner Country: Switzerland

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| 110 | INT/SWISS/I SJRP/PEP/P -01/2012 10-09-2012 | Astrophysics | Estimation of H ₀ through monitoring of gravitationally lensed quasars | Dr. C.S. Stalin, Indian Institute of Astrophysics, Block II, Koramangala, Bangalore-560034 | 6,00,000/- | 2 years |
| 111 | INT/SWISS/I SJRP/PEP/P -02/2012 10-09-2012 | Chemical Engineering | HIV recombination and immune escape: Combining within host viral dynamics with epidemiological transmission | Prof. Narendra Madhukar Dixit, Assoc Prof., Department of Chemical Engineering, Indian Institute of Science, Bangalore, Karnataka-560012 | 3,56,000/- | 2 years |
| 112 | INT/SWISS/I SJRP/PEP/P -03/2012 10-09-2012 | Chemical Sciences | Heteronuclear Decoupling Under Homonuclear Recoupling Sequences | Dr. Madhu Kovilakathu Perunthiruthy, DCS, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai-400005 | 4,16,000/- | 2 years |
| 117 | INT/SWISS/I SJRP/PEP/P -04/2012 10-09-2012 | Chemical Sciences | Studies on Pyrazole Based Magnetic Coordination Polymers | Dr. Raju Mondal, Department of Inorganic Chemistry, Indian Association for the Cultivation of Science Raja S.C. Mullick Road, Jadavpur, Kolkata 700032 | 4,48,000/- | 2 years |
| 113 | INT/SWISS/I SJRP/PEP/P -05/2012 10-09-2012 | Life Sciences | Mining LinA and LinB variants for the development of enzymatic bioremediation of hexachlorocyclohexane | Dr. Rup Lal, Molecular Biology lab, Department of Zoology, University of Delhi, New Delhi-110007 | 6,56,000/- | 2 years |

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| 114 | INT/SWISS/ SJRP/PEP/P -06/2012 10-09-2012 | Physics | Electronic, Magnetic & Non-Magnetic Doping of Quantum Spin Chains | Dr. Surjeet Singh, Assistant Professor, Indian Institute of Science Education and Research, 900 NCL Innovation Park, Pashan, Pune- 411008, Maharashtra | 3,62,500/- | 2 years |
| 115 | INT/SWISS/ SJRP/PEP/P -07/2012 10-09-2012 | Computer Science | Self- Documented Software Architecture | Dr. Tadinada Venkata Prabhakar, Professor, Department of Computer Science & Engineering, Indian Institute of Technology Kanpur, Kanpur: 208016 | 4,80,000/- | 2 years |
| 116 | INT/SWISS/ SJRP/PEP/P -09/2012 10-09-2012 | Mathematics | Mathematical Programming in Parameterized Algorithms | Dr. Saket Saurabh, The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai-600113 | 4,80,000/- | 2 years |
| 117 | INT/SWISS/ SJRP/PEP/P -10/2012 10-09-2012 | Physics | Radiation damage studies of Silicon sensors | Bhardwaj Ashutosh, Dr. Department of Physics & Astrophysics, Room No. 189, 2nd Floor, Mutli Story Building, University of Delhi, Delhi- 110007 | 4,08,000/- | 2 years |

Partner Country: Tunisia

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| 118 | (INT/Tunisia/ P-01/2013) 26.02.2013 | Material Science | Experimental characterization and numerical modeling of charge transport in synthetic polymers used for electrical insulation under low and high applied voltages | Dr. Nandini Gupta, Indian Institute of Technology Kanpur | 13,02,000/- | 3 Years |
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| 119 | (INT/Tunisia/ P-02/2013) 01.03.2013 | Information Science | Development of Wearable Antennas for Body Centric Applications and Studies on their Physiological Effects | Prof. Bhaskar Gupta, Professor, Jadavpur University, Kolkata | 14,49,000/- | 3 Years |
| 120 | (INT/Tunisia/ P-03/2013) 15.03.2013 | Biotechnology | Comparative study of actionomycetes biodiversity in India and Tunisia: investigation of biotechnological enzymes and biological activities | Dr. Neelu Nawani, Dr. D.Y.Patil Biotechnology and Bioinformatics Institute, Pune | 24,39,000/- | 3 Years |
| 121 | (INT/Tunisia/ P-04/2013) 19.03.2013 | Information Science | Design, modeling and characterization of highly nonlinear fibers for all-optical high bit-rate networks | Dr. Ajeet Kumar, Delhi Technological University, Delhi | 13,50,000/- | 3 Years |
| 122 | (INT/Tunisia/ P-05/2013) | Materials Science | Theoretical Studies on Ion- Atom Interaction and Cold Collision in the Presence of Electromagnetic Fields | Dr. Bimalendu Deb, Indian Association for the Cultivation of Science, Kolkata | 11,52,000/- | 3 Years |

Partner Country: Thailand

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| 123 | DST/INT/TH AI/P-01/2012 31-01-2013 | Natural Resource Management | Comparative Antimicrobial Activity and Molecular Characterization of Clerodendrum Species of Thailand & India | Dr. Sawlang Borsingh Wann, CSIR-Northeast Institute of Science & Technology, Jorhat | 8,85,000/- | 3 Years |
| 124 | DST/INT/TH AI/P-02/2012 31-01-2013 | Natural Resource Management | Phytomanagem ent of Metalliferous Soils | Prof. M.N.V. Prasad, University of Hyderabad | 8,85,000/- | 3 Years |

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| 125 | DST/INT/TH AI/P-04/2012 12-02-2013 | Marine Science | Geochemical Speciation and Risk Assessment of Trace Metals in Sediments from two Tropical Mangrove Environments India and Thailand | Prof. Santosh Kumar Sarkar, University of Calcutta | 7,20,000/- | 3 Years |
| 126 | DST/INT/TH AI/P-05/2012 11-02-2013 | Agricultural Science | Yield Improvement and Adoption of Plantation Technologies in Bioenergy Crops for Increasing the Potential of Bioenergy Production | Dr. V Sivakumar Institute of Forest Genetics and Tree Breeding (IFGTB), Coimbatore | 11,13,000/- | 3 Years |
| 127 | DST/INT/TH AI/P-06/2012 31-01-2013 | Nanotechnology | Developing Filter Paper for Production of Safe Drinking Water | Dr. Sandeep Kumar Department of Bio & Nano Technology, GJUS&T, Hisar, Tel: +91-1662- 263500; E-mail: ksandeep36@yaho o.com | 8,85,000/- | 3 Years |
| 128 | DST/INT/TH AI/P-07/2012 26-03-2013 | Biotechnology | Molecular Ecology and Systematics of Fungal Communities Associated with Degradation of Lignocellulosic Biomass on the Next Generation Sequencing (NSG) and Polyphasic Taxonomic Approach | Dr. Belle Damodara Shenoy, Institute of Microbial Technology, Chandigarh | 10,20,000/- | 3 Years |

Partner Country: UK

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|---------------------------------|--|-----------|---|--|-------------|---------|
| 129 | DST/INT/UK/P-30/2012 26-03-2013 | Bio | Investigating modulation of miRNA expression in the hypoxic stem cell niche | Dr. Ritu Kulshreshtha , Indian Institute of Technology, Delhi, HauzKhas, New Delhi-110016 | 15,32,000/- | 2 Years |
| Partner Country: Ukraine | | | | | | |
| 130 | INT/UKR/2012/P-01 10-10-2012 | Chemistry | Research of the new processes of motor fuel production from wastes. Hydrogen and synthesis gas production from solid biomass and domestic wastes. Conversion of biomass-derived gases (syn-gas) to second and | Dr. Anil Kumar Sinha , Sc "E-1", Hydroprocessing Lab, CCPD, IIP, Mohkampur-248 005-Dehradun | 6,69,000/- | 3 Years |
| 131 | INT/UKR/2012/P-03 13-08-2012 | Physics | Thermodynamic behavior of IV generation working fluids for renewable energy technologies | Dr. G. Venkatarathnam , Professor, Indian Institute of Technology, Madras, Refrigeration & Air Conditioning Lab, Chennai-600036 | 9,76,200/- | 3 Years |
| 132 | INT/UKR/2012/P-04 20-09-2012 | Bio | Development of probiotics for enhanced antioxidant availability | Dr. Prasanna B.D. , Department of Chemical Engineering, National Institute of Technology, Karnataka Surathkal | 4,30,000/- | 3 Years |
| 133 | INT/UKR/2012/P-05 30-07-2012 | Bio | Development of new Antiepileptic leads to suppress hippocampal epileptic seizures | Prof. P Yogeeshwari , Head Department of pharmacy, BITS Pilani, Hyderabad Campus | 7,74,000/- | 3 Years |

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| 134 | INT/UKR/2012 /P-06 05-11-2012 | Engineering | Epitaxial rare-earth substituted garnet films for quantum key distribution devices | Prof. Anil Prabhakar , IIT Madras, Department of Electrical Engineering, Chennai-600036 | 10,51,200/- | 3 Years |
| 135 | INT/UKR/2012 /P-07 19-11-2012 | Astrophysics | Dark matter, Dark energy and modified gravity | Dr. Varun Sahni Inter-University Centre for Astronomy and Astrophysics, Post Bag No. 4. Ganeshkhind, Pune-411007 | 9,24,000/- | 3 Years |
| 136 | INT/UKR/2012 /P-08 02-11-2012 | Physics | Phase transitional, diffusion processes and agnetoresistive properties of multilayer based on Fe &Pd, Pt,Ag | Prof. Chetan Panchal , Assistant Professor, The MS University of Baroda, Faculty of Technology and Engineering, Varodara-390001 | 9,61,200/- | 3 Years |
| 137 | INT/UKR/2012 /P-09 13-08-2012 | Bio | Developing electrochemical and photochemical biosensors using chloroplast and enzyme membranes | Prof. A.N. Mishra , Central University of Jharkhand, Ranchi | 9,76,200/- | 3 Years |
| 138 | INT/UKR/2012 /P-10 11-09-2012 | Bio | Design and synthesis of novel functionalized chalcones as inhibitors of hemoglobin-degrading malarial cysteine proteases, falcipain 2/3 | Dr. B.K. Singh , Assistant Professor, Department of Chemistry, University of Delhi, Delhi | 6,72,000/- | 3 Years |