

**List of New Projects Sanctioned under Women Scientists Scheme-A (WOS-A)
During 2015-16
Physical and Mathematical Sciences (PM)**

Sl. No.	Reference No. & Project Title	PI Name & Institute Address	Duration (Years)	Total Cost (Rs.)
1.	SR/WOS-A/PM-1051/2015 Synthesis, characterization and study of sensing properties of transition metal ions ZnO based nanoparticle	Ms Swathi Anneboina Department of Physics, Hyderabad Institute of Technology and Management Gowdavelly, Medchal Ranga reddy-501401 AP	3	1750000/-
2.	SR/WOS-A/PM-1059/2015 Analytic and numerical study on dynamics of biological species with delay	Dr Atasi Patra Maiti CORAL, Indian Institute of Technology, Kharagpur-721302 WB	3	2414000/-
3.	SR/WOS-A/PM-1002/2015 Fabrication and characterization of giant magnetoresistance based spin-valve systems	Ms Sreevidya Perikamana Vadhyar Engineering Division, CSIR- National Aerospace Laboratories, PB No 1779, Kodihalli Bangalore-560017 Karnataka	3	2100000/-
4.	SR/WOS-A/PM-1004/2015 Growth and characterization of multiferroic metal organic framework bulk and thin films for memory device applications	Dr Sarmishtha Maity Department of Physics, Indian Institute of Technology Delhi, New Delhi-110016 Delhi	3	28,38,000/-
5.	SR/WOS-A/PM-1005/2015 Enhancement of electrical properties of piezoelectric composites for high temperature applications	Ms Bionane Mamatha Vardhaman College of Engineering, Shamshabad, Hyderabad-501218 Telangana	3	20,00,000/-
6.	SR/WOS-A/PM-1006/2015 Preparation and characterization of ferroelectric-ferrite composites	Ms Rubiya Samad Department of Physics, University of Kashmir, Hazratbal, Srinagar-190006 Jammu & Kashmir	3	26,10,000/-
7.	SR/WOS-A/PM-1008/2015 Experimental studies of vibrational spectra of some anticancer drugs	Dr Priyanka Singh Centre for Nano Sciences & Nanotechnology, Jamia Millia Islamia, Jamia Nagar, New Delhi-110025 Delhi	3	26,18,000/-
8.	SR/WOS-A/PM-1009/2015 Temperture induced effects on hot rotating nuclei	Dr Mamata Aggarwal Department of Physics, University of Mumbai, Mumbai-400032 Maharashtra	3	23,95,000/-

9.	SR/WOS-A/PM-1010/2015 Study of spinterfaces in organic spin-valve thin films	Dr Vaishali Pathak Londhe Department of Nano Science & Technology, Bharathiar University, Coimbatore-641046 Tamil Nadu	3	27,80,000/-
10.	SR/WOS-A/PM-1012/2015 Fabrication and development of efficient, flexible hybrid supercapacitor-battery systems for electrochemical energy storage	Dr Sellam Ashok Kumar Department of Organic & Physical Chemistry, Indian institute of Science, Bangalore-560012 Karnataka	3	26,70,000/-
11.	SR/WOS-A/PM-1014/2015 Increasing power through integrating different types of data in genetic association studies	Ms Sarmistha Das Human Genetics Unit, Indian Statistical Institute, 203, Barrackpore, Trunk Road, Kolkata-700108 West Bengal	3	13,75,000/-
12.	SR/WOS-A/PM-1015/2015 Performance evaluation of multilayer plasmonic structures with applications in sensing and imaging	Ms Jayeta Banerjee Department of Applied Optics & Photonics, University of Calcutta, JD_2, Salt Lake Sector-III, Kolkata-700098 WB	3	18,30,000/-
13.	SR/WOS-A/PM-1016/2015 In-situ dynamic light scattering for the biomolecular sensing	Dr Mohini Gupta Department of Physics, Indian Institute of Technology Delhi, New Delhi-110016 Delhi	3	25,35,000/-
14.	SR/WOS-A/PM-1021/2015 Study of electrical optical and magnetic properties in doped CeO ₂	Ms Swati Soni Department of Pure & Applied Physics, University of Kota, Maharao Bhim Singh Marg, Kota-324010 Rajasthan	3	2420000/-
15.	SR/WOS-A/PM-1025/2015 Efficient methods for solving system of fuzzy complex linear equations	Ms Jeevan Jot Kaur School of Mathematics, Thapar University, Patiala-147004 Punjab	3	13,80,000/-
16.	SR/WOS-A/PM-1027/2015 Development of flexible transparent conducting multilayer (FleTCoM) inorganic-organic hybrid structure for opto-electronic applications	Dr Smita Mukherjee Advanced Mechanical and Material Characterization Division, Central Glass & Ceramic Research Institute, Kolkata-700032 West Bengal	3	27,80,000/-
17.	SR/WOS-A/PM-1029/2015 Continous spray pyrolysis (CSP) sunthesized ZnO/TiO ₂ Nanostructure based perovskite solar cells	Dr Charu Dwivedi Photovoltaic Laboratory, Centre for Energy Studies, Indian Institute of Technology Delhi, Hauz Khas New Delhi-110016 Delhi	3	2948000/-

18.	SR/WOS-A/PM-1036/2015 Performance study of luminescent solar concentrators with rare-earth complexes in PMMA matrix and prospects of recycled rare-earth particles as luminophores	Ms Brindha V.G Mohan Department of Physics, The American College, Madurai-625006 Tamil Nadu	3	18,90,000/-
19.	SR/WOS-A/PM-1040/2015 Anti- reflective and dust mitigation coatings on dye sensitized solar cells (DSSCs)	Dr Mamata Pradhan Metallurgical Engineering and Materials Science Department Indian Institute of Technology Bombay, Powai Mumbai-400076 Maharashtra	3	26,70,000/-
20.	SR/WOS-A/PM-1042/2015 Ab-initio studies of optical properties of novel photovoltaic materials	Dr Anu Bala Centre for Informatics, School of Natural Sciences, Shiv Nadar University, NH-91, Tehsil Dadri, Gautam Budh Nagar-201016 Uttar Pradesh	3	23,35,000/-
21.	SR/WOS-A/PM-1043/2015 A robust development of continuous sampling plan and skip lot sampling plan	Ms V Nirmala Department of Statistics, Bharathiar University Coimbatore-641046 Tamil Nadu	3	1765000/-

Chemical Sciences (CS)

Sl. No.	Reference No. & Project Title	PI Name & Institute Address	Duration (Years)	Total Cost (Rs.)
1.	SR/WOS-A/CS-1103/2015 Design and synthesis of novel heterogenous N-Heterocyclic carbene based catalysts and their application in selective and enantioselective organic transformations	Dr Soumi Laha Indian Institute of Chemical Technology, Tarnaka, Uppal Road, Hyderabad-500607 Telangana	3	27,83,000/-
2.	SR/WOS-A/CS-1104/2015 Isolation, screening and characterization of bioactive compound from ayurvedic medicinal plants against breast cancer	Ms R. Gandhimathi Sri Venkateswara College of Pharmacy, RVS Nagar, Tirupathi Road Chittoor-517127 Andhra Pradesh	3	21,56,000/-
3.	SR/WOS-A/CS-1105/2015 Fluorinated reseratrolo analogs-potential human telomerase enzyme antagonist in cancer therapy	Ms Padma Suryanarayan Singu Fluoroorganic Division, CSIR-Indian Institute of Chemical Technology Hyderabad-500007 Telangana	3	21,60,000/-
4.	SR/WOS-A/CS-1108/2015 Discovery of novel inhibitors of bacterial cell division targeting GTP-binding protein FtsZ	Ms Swaysiddha Tripathy Department of Pharmacy, Utkal University, Vanivihar, Bhubaneswar-751004 Odisha	3	19,90,000/-
5.	SR/WOS-A/CS-1003/2015 One-pot synthesis of isoquinolines from oximes over Nb-containing-mixed phase-mesoporous/microporous materials via Beckmann rearrangement cum ring closing reaction	Dr Rani S. Jha Chemical Engineering and Process Development Division, National Chemical Laboratory, Pune-411008 Maharashtra	3	27,30,000/-
6.	SR/WOS-A/CS-1012/2015 Development of colon specific drug delivery system using natural carbohydrate polymer capped, photoluminescent mesoporous silica nanoparticle	Ms Soumyashree Dhal Department of Chemistry, National Institute of Technology Rourkela-769008 Odisha	3	16,50,000/-
7.	SR/WOS-A/CS-1015/2015 Development of one step flame method at liquid-liquid interface: A novel method for synthesis of semiconductors quantum dots thin film	Ms Aarti Prashant Gaikwad Chemical Engineering & Process Development Division, National Chemical Laboratory Pune-411008 Maharashtra	3	16,20,000/-

8.	SR/WOS-A/CS-1020/2015 Design and development of metal/metal oxides nano particles and their catalytic applications	Dr Archana Chaudhary Discipline of Chemistry, Indian Institute of Technology Indore, Khandwa Road, Simrol, Indore-452020 MP	3	27,20,000
9.	SR/WOS-A/CS-1024/2015 Synthesis of indole based carbo- /heterocycles via catalyzed intermolecular cyclization of allenylindoles with rtho functionalized aldehydes	Dr Uruvakili Anasuyamma School of Chemistry, University of Hyderabad, Gachibowli, Hyderabad-500046 Telangana	3	32,20,000/-
10.	SR/WOS-A/CS-1030/2015 Synthesis, characterization, biological & computational study of series of 1-{-oxo- 3phenyl-2-(benzosulfonamide)- propylamido}-anthracene-9, 10- dione analog-Anthraquinone based anticancer drugs	Ms Manu Vatsal Department of Chemistry National Institute of Technolohy Hamirpur-177005 Himachal pradesh	3	24,30,000/-
11.	SR/WOS-A/CS-1035/2015 Synthesis of water soluble cobalt complexes and their catalytic activities in aques and biphasic medium	Ms Anita Bhatia Department of Chemistry, National institute of Technology Kurukshetra, Kurukshetra-136119 Haryana	3	23,20,000/-
12.	SR/WOS-A/CS-1042/2015 Synthesis, charaterization and application of novel magnetically recoverable functionalized nano-catalysts for various organic transformations	Dr Ramani Thekkathu School of Nano Science & Technology, National Institute of Technology Calicut Kozhikode-673601 Kerala	3	33,00,000/-
13.	SR/WOS-A/CS-1045/2015 Electrochemical investigation of nanocomposite based catalysts for CO2 reduction reaction in energy harvesting system	Ms Swarda Nitin Khatavkar Department of Chemistry, Savitribai Phule Pune University, Ganeshkhind, Pune-411007 Maharashtra	3	17,00,000/-
14.	SR/WOS-A/CS-1054/2015 Synthesis, fabrication and development of grapheme based gas sensors for detection of ammonia (NH3), Nitrogen Oxides (NOX) and Carbon Monoxide (CO)	Dr Sanhita Majumdar Centre of Excellence for Green Energy & Sensor Systems, Indian Institute of Engineering Science & Technology (IEST), Shibpur, Botanic Garden Howrah-711103 West Bengal	3	30,00,000/-
15.	SR/WOS-A/CS-1074/2015 Synthesis and characterization of substituted cyclophosphazenes and electrospun polyphosphazene blends for agricultural applications	Ms Vidya Krishnamoorthy Department of Chemistry, Anna University Chennai-600025 Tamil Nadu	3	14,40,000/-

Life Sciences (LS)

Sl. No.	Reference No. & Project Title	PI Name & Institute Address	Duration (Years)	Total Cost (Rs.)
1.	SR/WOS-A/LS-1004/2015 Metagenomic isolation and study of novel D-amino acid amidase enzymes for industrial applications	Ms Sujata Sinha Department of Biochemical Engineering & Biotechnology, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016 Delhi	3	26,00,000/-
2.	SR/WOS-A/LS-1021/2015 Molecular characterization of Agr & Toxin-Antitoxin systems of hospital & community acquired MRSA isolated from India to understand its role in biofilm and multidrug tolerance	Ms. Sonia Jain Infectious Diseases and Immunology Division Indian Institute of Chemical Biology 4 Raja S.C. Mullick Road Kolkata-700032 WB	3	20,30,000/-
3.	SR/WOS-A/LS-1026/2015 An assessment of the role of mitochondria in bovine mastitis	Dr. Geeta Devi Leishangthem Animal Disease Research Centre, College of Veterinary Science Guru Angad Dev Veterinary & Animal Sciences University Ludhiana-141004 Punjab	3	28,38,000/-
4.	SR/WOS-A/LS-1046/2015 DNA fingerprinting and molecular characterization of orchid genus Pholidota (Orchidaceae) found in India	Ms Nameirakpam Anita Devi Centre for Orchid Gene Conservation of Eastern Himalayan Region, FEEDS/KVK-Sylvan, Senapati District-795129 Manipur	3	19,80,000/-
5.	SR/WOS-A/LS-1067/2015 Genetics of gastric carcinoma in ethnic population of Kashmir	Ms Ruchi Shah School of Biotechnology, Shri Mata Vaishno Devi University, Katra-182320 J&K	3	21,45,000/-
6.	SR/WOS-A/LS-1074/2015 Innovative downstream processing techniques for the extraction and purification of bioactive compounds from medicinal plants	Dr. MC Lakshmi Department of Studies in Biotechnology, University of Mysore, Manasagangotri Mysore-570006 Karnataka	3	32,68,000/-
7.	SR/WOS-A/LS-1075/2015 Investigation on the plausible association of HMGB1 gene aberrations with oral cancers and the in vitro effect of HMGB1 on cell cycle, proliferation, apoptosis, invasion and metastasis	Dr Saritha Katta Research & Development Basavatarakam Indo-American Cancer Hospital and Research Institute Banjara Hills Hyderabad-500034 Telangana	3	32,78,000/-

8.	SR/WOS-A/LS-1078/2015 Ethosomal formulations for the improved topical delivery of some newer drugs	Ms. Nida Akhtar Department of Pharmaceutics Rajiv Academy for Pharmacy P.O. Chhatikara Mathura-281001 UP	3	
9.	SR/WOS-A/LS-1089/2015 Recovery of avian infectious bronchitis virus from cDNA (B17 strain)	Ms. Shilpa Panikparambil Deptment of Veterinary Microbiology Madras Veterinary College Chennai-600007 TN	3	24,85,000/-
10.	SR/WOS-A/LS-1109/2015 Neuro-modulatory effect of BDNF on narcotic addiction	Dr Kusumika Gharami Department of Neurobiology, Division of Cell Biology & Physiology, Indian Institute of Chemical Biology, Kolkata-700032 West Bengal	3	29,80,000/-
11.	SR/WOS-A/LS-1118/2015 Genetic and phenotypic analysis of fucosyltransferase-2 (FUT-2) gene in Mumbai population	Ms. Kshitiija Suhas Rane Yadav MGM Medical College & Hospital Educational Campus Junction of NH-4 and Sion Pavel Expressway Mumbai-410209 Mahashtra	3	22,00,000/-
12.	SR/WOS-A/LS-1119/2015 Bedaquiline polymeric nanoparticles for lung targeting: a manna for treating multi drug resistant tuberculosis	Ms Tejal Gaurav Rawal Instiute of Pharmacy, Nirma University, Ahmedabad-382481 Gujarat	3	27,00,000/-
13.	SR/WOS-A/LS-1120/2015 Molecular mapping and octopamine receptor gene polymorphism based detection of amitraz resistance in cattle tick, Rhipicephalus (Boophilus) micropuls	Dr Jyoti Department of Veterinary Parasitology, College of Veterinary Science, Guru Angad Dev Veterinary & Animal Sciences University Ludhiana-141004 Punjab	3	30,80,000/-
14.	SR/WOS-A/LS-1137/2015 Sustainable bioprocess for the production of high value succinic acid from municipal waste	Ms. Amulya Kotamraju Bioengineering and Environmental Sciences CSIR-Indian Institute of Chemical Technology Hyderabad-500007 Telangana	3	14,74,000/-
15.	SR/WOS-A/LS-1138/2015 Potential of purine nucleoside degrading probiotic lactic acid bacteria in lowering serum uric acid levels and management of hyperuricemia	Dr Neha Pandey Dairy Microbiology Division Indian Council of Agriculture Research, National Dairy Research Institute Karnal-132001 Haryana	3	30,00,000/-
16.	SR/WOS-A/LS-1146/2015 Developing wheat genotypes safe for celiac patients through genome editing technologies	Dr. Monika Bansal School of Agricultural Biotechnology Punjab Agricultural University Ludhiana-141004 Punjab	3	25,60,000/-

17.	SR/WOS-A/LS-1175/2015 Unravelling the effect of elevated carbon-di-oxide mediated abiotic stress in chickpea transcriptome	Dr. Paramita Palit Centre of Excellence in Genomic and Winthrop Research, International Crops Research Institute for the Semi-Arid Tropics, Patancheru-502324 Telangana	3	31,85,000/-
18.	SR/WOS-A/LS-1179/2015 Experimental evolution of thermal plasticity of body and organ size in <i>Drosophila melanogaster</i>	Dr. Shampa M Ghosh School of Biotechnology KIIT University Bhubaneswar-751024 Odisha	3	31,68,000/-
19.	SR/WOS-A/LS-1182/2015 Improvement of lodging resistance in rice cultivars through introgression of "SCM2" gene conferring culm strength	Dr. Subashini Govindan Department of Rice Tamil Nadu Agricultural University Coimbatore-641003 TN	3	27,70,000/-
20.	SR/WOS-A/LS-1185/2015 Studies on involvement of microRNAs in environmental neurotoxin induced neurodegeneration	Ms. Tanisha Singh Department of Toxicology Division, CSIR-Indian Institute of Toxicology Research Lucknow-226001 UP	3	19,80,000/-
21.	SR/WOS-A/LS-1194/2015 Bacterial inclusion bodies as a model for study of α -synucleinopathy	Ms. Sudeepa Srichandran National Institute of Immunology Aruna Asaf Ali Marg New Delhi-110067 Delhi	3	19,20,000/-
22.	SR/WOS-A/LS-1196/2015 An investigation of in vitro and in vivo anticancer activity of green synthesized silver nanoparticles against skin cancer and formulation of gel	Ms. Sunita Vishnu Patil Department of Microbiology Karpagam University, Karpagam Academy of Higher Education Coimbatore-641021 TN	3	16,90,000/-
23.	SR/WOS-A/LS-1199/2015 Bio-priming mediated nutrient use efficiency of okra (<i>Ablemoschus esulentus</i> L. Moench)	Ms. Sumita Pal Department of Mycology & Plant Pathology, Institute of Agricultural Sciences, Banaras Hindu University Varanasi-221005 UP	3	17,50,000/-
24.	SR/WOS-A/LS-1204/2015 Characterization of micro RNA turnover pathway in human cells	Dr. Pradipta Kundu Laboratory of RNA Molecular Biology, Department of Microbiology and Cell Biology Bangalore-560012 Karnataka	3	32,20,000/-

25.	SR/WOS-A/LS-1206/2015 Biochemical basis of micronutrient deficiency tolerance in triticale x wheat derivative lines	Ms. Ravneet Kaur Department of Processing and Food Engineering Punjab Agricultural University Ludhiana-141004 Punjab	3	17,50,000/-
26.	SR/WOS-A/LS-1214/2015 Enhancement of biofuel production from pentose sugars using gene shuffling by <i>Zymomonas mobilis</i> and <i>Pichia stipitis</i> using sweet sorghum	Ms. Karuna Devi Jetli Department of Biotechnology Gandhi Institute of Technology and Management Visakhapatnam-530045 AP	3	17,50,000/-
27.	SR/WOS-A/LS-1224/2015 Development of tumor targeted multifunctional calcium phosphate nanocarrier for gene-directed enzyme prodrug therapy (GDEPT)	Dr Saba Naqvi Department of Biotechnology Indian Institute of Technology Roorkee Roorkee-247667 Uttarakhand	3	32,20,000/-
28.	SR/WOS-A/LS-1225/2015 Novel nonlytic acinetobacter phage AbDs1: Elucidation of mechanism of infection and manipulation of its genome to deliver antibacterial peptides into multi drug resistant <i>Acinetobacter baumannii</i> strains	Ms. Harshita Nagasai Yakkala Department of Animal Sciences, School of Life Sciences University of Hyderabad Hyderabad-500046 Telangana	3	19,80,000/-
29.	SR/WOS-A/LS-1226/2015 Validation of auto antibodies & their combined role with clinical, anthropometric and behavioural factors in predicting breast cancer risk in Indian women	Ms. Thejas Rajakumar Kathrokkolly Department of Community Medicine Manipal University Kasturba Medical College Manipal-576104 Karnataka	3	17,60,000/-
30.	SR/WOS-A/LS-1233/2015 Characterization of viral disease complex in king chilli from North Eastern Region of India and development of efficient multiplex immuno, immuno-nucleo based detection system	Dr Ngathem Taibangnganbi Chanu Plant Pathology Section ICAR Research Complex for NEH Region, Manipur Centre Imphal-795004 Manipur	3	30,00,000/-
31.	SR/WOS-A/LS-1237/2015 Molecular characterization of genes regulating body growth in rohu, <i>Labeo rohita</i> using candidate gene approach	Ms. Mausumee Mohanty ICAR-Central Institute of Freshwater Aquaculture Kausalyaganga Bhubaneswar-751002 Odisha	3	20,90,000/-
32.	SR/WOS-A/LS-1246/2015 Biochemical and molecular analysis of novel type of mutanase from <i>Paracoccus</i> sp	Dr Ravi Naga Amrutha Department of Bioengineering and Environmental Centre Indian Institute of Chemical Technology, Tarnaka Hyderabad-500007 Telangana	3	28,38,000/-

33.	SR/WOS-A/LS-1248/2015 Identification of ribosnitches in the context of alternative splicing	Ms. G. Ramya Center for Computational Natural Sciences and Bioinformatics International Institute of Information Technology Hyderabad-500032 Telangana	3	19,35,000/-
34.	SR/WOS-A/LS-1249/2015 Interdependence of ubiquitin proteasome system and autophagy in cellular proteostasis and its relevance in neurodegenerative disorders	Dr. Lakshmi Garimella Molecular Biology and Genetics Unit Jawaharlal Nehru Centre for Advanced Scientific Research Bangalore-560064 Karnataka	3	32,20,000/-
35.	SR/WOS-A/LS-1250/2015 Role of class II TCP transcription factors in interlinking growth and host defense in <i>Arabidopsis thaliana</i>	Dr. Kavitha Rao Sarvepalli Department of Microbiology and Cell Biology Indian Institute of Science Bangalore-560012 Karnataka	3	30,60,000/-
36.	SR/WOS-A/LS-1251/2015 Development of long acting formulation for parkinson's disease	Ms. Komal Vikas Chaudhary Institute of Pharmacy Nirma University Ahmedabad-382481 Gujarat	3	24,85,000/-
37.	SR/WOS-A/LS-1262/2015 Oleuropein loaded nanostructured lipid carrier (NLC) as multifunctional nanomedicine for treatment of meningitis through nasal delivery	Ms. P Sucharitha Department of Pharmaceutics Sri Venkateswara College of Pharmacy RVS Nagar Chittoor-517127 AP	3	25,94,000/-
38.	SR/WOS-A/LS-1268/2015 Development of anti-angiogenic drug delivery system using a combination of scFv for sFlt-1, TRAIL and a natural compound from <i>Tinospora cordifolia</i>	Ms. Yashaswini Balaraju Department of Biotechnology University of Mysore Manasagangotri Mysore-570006 Karnataka	3	22,00,000/-
39.	SR/WOS-A/LS-1278/2015 Cultivation, genetic diversity and active principle segregation of different accessions of <i>Cichorium intybus</i> L (Chicory) growing in Kashmir Himalaya and Ladakh	Ms. Bisma Malik Department of Bioresources University of Kashmir Srinagar-190006 J&K	3	20,40,000/-
40.	SR/WOS-A/LS-1286/2015 In vivo and ex vivo studies on therapeutic potential of quercetin in the treatment of experimental dysmenorrhoea	Dr. Afroz Jahan Department of Veterinary Pharmacology & Toxicology NTR College of Veterinary Science, Opposite Airport Gannavaram-521102 AP	3	22,10,000/-

41.	SR/WOS-A/LS-1289/2015 Preparation, characterization of simvastatin incorporated gels/emulsion and their role in promoting in bone regeneration through measurement of bone density in implants sites	Dr. Swati Gupta University Institute of Pharmaceutical Sciences Panjab University Sector-14 Chandigarh-160014 Punjab	3	32,20,000/-
42.	SR/WOS-A/LS-1290/2015 Protective effect of topical application of celecoxib and/or n-acetyl cysteine on deoxynivalenol; a mycotoxin, induced skin inflammation, genotoxicity and tumorigenicity in mice	Dr Sakshi Mishra Genotoxicity Laboratory Toxicology Division Central Drug Research Institute Lucknow-226031 UP	3	32,20,000/-
43.	SR/WOS-A/LS-1313/2015 Studies on mapping of genetic diversity, phylogentic analysis and molecular evolution of PPRV isolates of state of Rajasthan	Ms. Alka Galav Department of Veterinary Microbiology and Biotechnology, College of Veterinary and Animal Sciences Bikaner-334001 Rajasthan	3	
44.	SR/WOS-A/LS-1309/2015 Establishment and characterization of oral cancer cell lines (and oral cancer stem cells) with drug sensitivity profile	Dr. Mugdha Girish Sukhthankar Advanced Centre for Treatment Research and Education in Cancer Tata Memorial Centre Mumbai-410210 Maharashtra	3	32,20,000/-
45.	SR/WOS-A/LS-1318/2015 Role of a novel ubiquitin ligase FBXO4 in pathogenesis of breast cancer	Dr. Ruby Dhar Department of Biochemistry All India Institute of Medical Sciences New Delhi-110029 New Delhi	3	32,20,000/-
46.	SR/WOS-A/LS-1339/2015 Development and identification of heterotic hybrids for increasing capsicum production	Ms. Meenakshi Dubey School of Life Sciences Jawaharlal Nehru University New Delhi-110067 Delhi	3	18,15,000/-
47.	SR/WOS-A/LS-1391/2015 Studies on structure and function of Vibrio cholerae Accessory cholera enterotoxin (Ace) and human Protein L-isoaspartyl-methyltransferase (hPIMT) in presence of nanoparticles	Dr Tanaya Chatterjee Department of Biochemistry, Bose Institute, P1/12, CIT Scheme, VII-M, Kolkata-700054 West Bengal	3	28,55,000/-
48.	SR/WOS-A/LS-1396/2015 Development of colon targeted microsponges for the treatment of inflammatory bowel disease	Ms. Janakidevi Srisolla Andhra University College of Pharmaceutical Sciences Andhra University Visakhapatnam-530003 AP	3	25,42,000/-

49.	SR/WOS-A/LS-1398/2015 Analysis of host defense mechanisms and evasion strategies by rotaviruses with focus on pattern recognition receptors	Ms. Anindita Banerjee Division of Virology National Institute of Cholera and Enteric Diseases P 33, CIT Scheme XM Kolkata-700010 WB	3	19,80,000/-
50.	SR/WOS-A/LS-1405/2015 Nanomedicinal triple therapy with gemcitabine, hedgehog inhibitor and immune-stimulant: A therapeutic boon for pancreatic cancer	Dr. Chandana Mohanty Laboratory of Nanomedicine Institute of Life Sciences Nalco Square Bhubaneswar-751023 Odisha	3	32,23,000/-
51.	SR/WOS-A/LS-1415/2015 Understanding the mechanism of biocide resistance development in leather-borne fungi	Ms. S. Kavitha Tannery Division Central Leather Research Institute, Adyar Chennai-600020 TN	3	18,15,000/-
52.	SR/WOS-A/LS-1416/2015 Early host-parasite interaction during lipid raft mediated entry of Leishmania donovani in mouse macrophages	Dr. Suchandra Majumdar Division of Molecular Medicine, Bose Institute Kolkata-700054 WB	3	28,38,000/-
53.	SR/WOS-A/LS-1424/2015 Characterisation of mechanisms of quinolone resistance in gram negative bacteria	Ms. PV Ravi Geetha Department of Microbiology Sri Ramchandra Medical College & Research Institute Sri Ramchandra University Chennai-600116 TN	3	17,00,000/-
54.	SR/WOS-A/LS-1425/2015 Antiretroviral therapy for treatment of HIV-associated neurocognitive disorders: improving safety and efficacy using nanostructured drug delivery	Ms. Babita Garg University Institute of Pharmaceutical Sciences Panjab University Chandigarh-160014 Punjab	3	21,63,000/-
55.	SR/WOS-A/LS-1428/2015 Electrically enhanced transdermal delivery of therapeutic agents	Dr. Rachna Prasad Centre for Biomedical Engineering, Indian Institute of Technology Delhi, New Delhi-110016 Delhi	3	32,23,000/-
56.	SR/WOS-A/LS-1429/2015 RNAi mediated resistance to Cucumber mosaic virus (CMV) in black pepper (Piper nigrum L.)	Ms. K A Revathy Division of Crop Protection ICAR-Indian Institute of Spices Research Post Bag No. 1701 Kozhikode-673012 Kerala	3	18,15,000/-

57.	SR/WOS-A/LS-1436/2015 A multivalent vaccine Clostridium perfringens comprising of non-toxic domains of alpha and enterotoxins in fusion with non-toxic epsilon toxin	Dr. Himani Kaushik School of Biotechnology Jawaharlal Nehru University New Delhi-110067 New Delhi	3	32,78,000/-
58.	SR/WOS-A/LS-1442/2015 Rational structure-based development of potent inhibitors targeting mycobacterial cysteine biosynthetic pathway: in silico and experimental drug design against M. tuberculosis CysE	Ms. Sunita Gupta Department of Biotechnology Jaypee Institute of Information Technology A-10 Noida-201307 UP	3	15,95,000/-
59.	SR/WOS-A/LS-1444/2015 Study to evaluate results of soft tissue reconstruction and augmentation with structural fat grafting in patients with post traumatic facial disfigurement	Dr. Ruchi Pathak Kaul JPA Apex Trauma Centre All India Institute of Medical Science, Ansari Nagar New Delhi-110029 Delhi	3	28,38,000/-

Earth and Atmospheric Sciences (EA)

Sl. No.	Reference No. & Project Title	PI Name & Institute Address	Duration (Years)	Total Cost (Rs.)
1.	SR/WOS-A/EA-1017/2015 Frequency, magnitude and causes of large floods vis-à-vis climatic excursions during past 2 ka: A study of alluvial and lacustrine records in dryland western India	Dr Alpa Sridhar Department of Geology, Faculty of Science, The M.S. University of Baroda, Vadodara-390002 Gujarat	3	28,20,000/-
2.	SR/WOS-A/EA-1001/2015 Modeling agricultural water productivity using earth observation technique over Indian region	Dr Indrani Choudhury Singh Crop Inventory and Agrosystem Division, BPSG/EPISA, Space Application Centre, ISRO, Ahmedabad-380015 Gujarat	3	24,00,000/-
3.	SR/WOS-A/EA-1004/2015 Micro level study of Varuna sub basin for delineation of aquifer system and estimation of groundwater resources	Dr Sangita Dey Institute of Environment & Sustainable Development, Banaras Hindu University, Varanasi-221005 Uttar Pradesh	3	30,03,000/-
4.	SR/WOS-A/EA-1006/2015 Implications of sedimentary provenance analysis as a proxy to changing paleoclimate and basin tectonics: case studies from the permo-carboniferous lower Gondwana successions of eastern India.	Dr Sampa Ghosh Department of Geology, Presidency University, 86/1 College Street, Kolkata-700073 West Bengal	3	29,35,000/-
5.	SR/WOS-A/EA-1009/2015 Tectonic evolution of the mishmi thrust in mishmi metamorphic complex in the eastern syntaxial bend with reference to morphotectonic and neotectonic implications in Arunachal Himalaya	Dr Rajkumari Mrinalinee Devi Geoscience Division, CSIR-North East Institute of Science & Technology, Jorhat-785006 Assam	3	26,85,000/-
6.	SR/WOS-A/EA-1012/2015 Chemical evolution and source apportionment of size segregated organic aerosols at middle Indo-Gangetic Plain	Ms Nandita Singh Institute of Environment & Sustainable Development, Banaras Hindu University, Varanasi-221005 Uttar Pradesh	3	17,60,000/-
7.	SR/WOS-A/EA-1014/2015 Remote sensing based coral habitat suitability mapping and conservation along Andaman & Nicobar Island	Ms Debaleena Majumdar Department of Geology & Geophysics, Indian Institute of Technology Kharagpur Kharagpur-721302 West Bengal	3	16,04,000

8.	SR/WOS-A/EA-1015/2015 Ionospheric morphological studies using the COSMIC GPS radio occultation (RO) technique and development reliable methods to screen-out questionable electron density profiles	Dr Gouthu Uma Department of Physics, Shri Vishnu Engineering College for Women, Bhimavaram-534202 Andhra Pradesh	3	24,14,000/-
9.	SR/WOS-A/EA-1016/2015 Hillslope hydrological functioning along a forest degradation gradient in the Lesser Himalaya of India	Dr Nuzhat Ul Qayoom Qazi Water Resources Systems Division, National Institute of Hydrology, Roorkee Roorkee-247667 Uttarakhand	3	24,20,000/-
10.	SR/WOS-A/EA-1017-B/2015 Crustal evolutionary studies of the mesoproterozoic litho-assemblages of South Delhi terrain from Sirohi district, Rajasthan.	Ms Riya Dutta Department of Geology, Mohanlal Sukhadia University, 51, Sarswati Marg, Udaipur-313001 Rajasthan	3	16,90,000/-
11.	SR/WOS-A/EA-1018/2015 Investigation of high-altitude climate variability during Holocene around Hamtah Glacier, Lahaul-Spiti, Western Himalaya, India	Ms Ruchika Bajpai Birbal Sahni Institute of Paleobotany, 53, University Road, Lucknow-226007 Uttar Pradesh	3	14,85,000/-
12.	SR/WOS-A/EA-1023/2015 Diversity and evolution of suboceanic mantle: constraints from Phanerozoic ophiolites between Nagaland-Manipur and Andaman Island	Dr Sarmistha Mukhopadhyay Department of Geology, University of Calcutta, 35 Ballygunge Circular Road, Kolkata-700019 West Bengal	3	30,45,000/-

Engineering & Technology (ET)

Sl. No.	Reference No. & Project Title	PI Name & Institute Address	Duration (Years)	Total Cost (Rs.)
1.	SR/WOS-A/ET-1082/2015 Development of reference point based evolutionary multi objective optimization algorithm for for multivariable controller design	Ms P R Varshini Department of Electrical and Electronics Engineering, Thiagarajar College of Engineering, Madurai-625105 Tamil Nadu	3	17,21,000/-
2.	SR/WOS-A/ET-1093/2015 Investigation of friction surfacing of Ti-alloy (Ti-6Al-4V) with stir & squeeze casted aluminum metal matrix nano composites	Ms Esther Issac Department of mechanical Engineering, Coimbatore Institute of Technology, Coimbatore-641014 Tamil Nadu	3	18,48,000/-
3.	SR/WOS-A/ET-1001/2015 Development of some techniques for automatic Indian sign language reognition	Ms Soumi Paul Department of Computer Science and Engineering Jadavpur University Kolkata-700032 WB	3	18,04,000/-
4.	SR/WOS-A/ET-1006/2015 Experimental and numerical study of single pile capacity adjacent to existing buried pile system	Ms Vaishali Sahu Department of Civil & Environmental Engineering, ITM University, Gurgaon-122017 Haryana	3	25,41,000/-
5.	SR/WOS-A/ET-1007/2015 Development, characterization and prototype application of high performance	Ms Sunitha Kesavan Nayar Department of Civil Engineering, Indian Institute of Technology Madras Chennai-600036 Tamil Nadu	3	17,92,000/-
6.	SR/WOS-A/ET-1012/2015 Ultra wideband (UWB) antennas for wireless communication applications	Ms Gunjan Shrivastava Dept of Electronics and Electrical Communication Engineering, Indian Institute of Technology Kharagpur Kharagpur-721302 WB	3	19,36,000/-
7.	SR/WOS-A/ET-1013/2015 Enhancing tribological properties of advances composites by surface tailoring with nano-filters	Dr Rekha Rattan Industrial Tribology Machine Dynamic & Maintenance Engineering Centre, Indian Institute of Technology Delhi, New Delhi-110016 Delhi	3	30,03,000/-
8.	SR/WOS-A/ET-1015/2015 Phylogenetic model for cancer classification	Ms Geetika Munjal ITM University Gurgaon-122017 Haryana	3	18,19,000/-
9.	SR/WOS-A/ET-1018/2015 Analytical and qualitative study of consensus problems through dynamical systems	Ms Prathyusha Musunuru KKR & KSR Institute of Technology & Sciences, Vinjanampadu Village, Vatticherukur Mandal, Guntur-522017 AP	3	1886000

10.	SR/WOS-A/ET-1035/2015 Estimation of brain tissue in schizophrenic patients using magnetization transfer imaging	Ms Raju Anitha CSE Department PACE Institute of Tehnology & Science Ongole-523272 AP	3	19,10,000/-
11.	SR/WOS-A/ET-1036/2015 Improving fuel efficiency in automotive application using light weight structural materials	Ms Aruna Santhi Kaki PACE Institute of Technology & Sciences Ongole-523002 AP	3	21,00,000/-
12.	SR/WOS-A/ET-1038/2015 Design and development of a strain sensor using BOTDR in distributed optical fiber for application in civil structures	Ms Aradhana Mishra Sophitorium Institute of Technology & Life Skills, Sophitorium Campus, College Road, Jatni, Khurda-752050 Odisha	3	22,76,000/-
13.	SR/WOS-A/ET-1041/2015 Design and development of differential power analysis and leakage power analysis resistant cryptosytem	Ms Cheerla Padmini Department of Electronics and Communication Engineering, Vardhaman College of Engineering Hyderabad-501218 Telangana	3	19,95,000/-
14.	SR/WOS-A/ET-1049/2015 Delineation of QRS complex for feature extraction of Myocardial infraction in single lead ECG signal	Ms Pooja Sabherwal ITM University Sector-23 Gurgaon-122001 Haryana	3	18,15,000/-
15.	SR/WOS-A/ET-1064/2015 Recovery and removal of oil from petroleum contaminated wastewater/sludge using advanced oxidation processes	Dr K Sivagami Environment and Water/ Resources Engineering, Department of Civil Engineering, Indian Institute of Technology Madars, Chennai-600036 Tamil Nadu	3	26,45,000/-
16.	SR/WOS-A/ET-1067/2015 Fatigue charateristics of fiber reinforced concrete and acoustic emission technique for damage detection	Dr Swati Maitra Department of Civil Engineering, Indian Institute of Technology Kharagpur Kharagpur-721302 West Bengal	3	24,10,000/-
17.	SR/WOS-A/ET-1068/2015 Development of one dimensional ZnO based hetrojunction nanostructures for photovolatic application	Ms Monika Kumari Department of Electronic Science, Kurukshetra University Kurukshetra-136119 Haryana	3	20,40,000/-
18.	SR/WOS-A/ET-1071/2015 An Effective Co-operative MC protocol in multi-channel multi-radio environment of cognitive wireless mesh networks	Ms Anusha Marouthu Department of Computer Science & Engineering K L University, Vaddeswaram Guntur-522502 AP	3	20,50,000/-

19.	SR/WOS-A/ET-1074/2015 Performance analysis of alternative 2-D channel materials in MOSFET	Ms Lopamudra Banerjee School of VLSI Technology, Indian Institute of Engineering Science & Technology, Shibpur, Howrah-711103 West Bengal	3	20,45,000/-
20.	SR/WOS-A/ET-1076/2015 Energy and QoS managemnet in cloud computing environment	Ms Hima G B Bindu Department of Computer Science and Engineering and Technology, R V S Nagar Chittoor-517127 AP	3	19,85,000/-
21.	SR/WOS-A/ET-1100/2015 A novel security for ATM framework by using digital image processing	Ms Kande Archana MLR Institute of Technology Laxman Reddy Avenue Dundigal Hyderabad-43 Telangana	3	17,20,000/-
22.	SR/WOS-A/ET-1102/2015 Modelling, synthesis & characterization of core-shell nanocomposites for microwave filter application	Ms Jutika Devi Department of Electronics and communication Technology, Gauhati University, Jalukbari, Guwahati-781014 Assam	3	