

NEW PROJECTS SANCTIONED DURING FY 2013-2014 BY NANO MISSION

Individual Scientist-Centric Research Projects = 25

Sr.	Date of sanction	DST Reference Number and Project Title	Principal Investigator details	Project duration (months)
1.	30.05.2013	SR/NM/NS-12/2012 Nanotechnological strategies for seed invigouration in rainfed groundnut.	Dr. N. Natarajan and Dr. K. S. Subramanian Department of Nano Science & Technology, Directorate of Natural Resource Management, Tamil Nadu Agricultural University Coimbatore – 641 003 (Tamil Nadu)	36
2.	06.06.2013	SR/NM/NS-1036/2011 Generation & electrochemical reactivity of metal atomic clusters	Dr. K.L.N. Phani Department of Electrodicts & Electroanalysis Central Electrochemical Research Institute Cecri Nagar, Karaikudi-630 006 (Tamil Nadu)	36
3.	07.06.2013	SR/NM/NS-1048/2012 Green synthesis of bioactive silver nanoparticles using plant extracts and their antinemic properties	Dr. (Mrs.) Anita Bellie Department of Nematology and Dr. K. Gunasekaran Department of Nano Science & Technology Directorate of Natural Resource Management Tamil Nadu Agricultural University Coimbatore - 6410 03 (Tamil Nadu)	36
4.	07.06.2013	SR/NM/NS-1096/2012 Developing peptide based immunogen using E1, E2, E3 and capsid proteins of chikungunya virus using nanoparticles as delivery vehicle	Dr. D. N. Rao Department of Biochemistry All India Institute of Medical Sciences New Delhi -110 029 (Delhi)	36
5.	10.06.2013	SR/NM/NS-1026/2011 Theoretical exploration of optical properties and photovoltaic applications possibilities of carbon based nanostructures	Dr. Joydeep Bhattarcharjee School of Physical Sciences National Institute of Science Education and Research (NISER) IOP Campus, Sachivalaya Marg, P.O. Sainik School Bhubaneswar-751005 (Odisha)	36
6.	12.06.2013	SR/NM/NS-1043/2011 Studies on the dynamic behavior of water in carbon nano tubes and application to filtration.	Dr. Sarith P Sathian School of Nano Science and Technology National Institute of Technology-Calicut, Kozhikode – 673 601 (Kerala)	36
7.	06.09.2013	SR/NM/NS-1030/2012 Development of nano-	Dr. Mukul Chandra Paul Fiber Optics and Photonics Division	36

		engineered glass based optical fiber with Cr ⁺⁴ doped YAG nano-particles for use as a broad-band light source within 1100-1500nm	Central Glass & Ceramic Research Institute 196 Raja S.C.Mullick Road, Jadavpur, Kolkata – 700 032 (West Bengal)	
8.	06.09.2013	SR/NM/NS-1060/2012 Frequency stability of graphene based nanoelectromechanical devices.	Dr. Akshay Naik Centre for Nano Science and Engineering Indian Institute of Science Bangalore -560 012 (Karnataka)	36
9.	07.06.2013	SR/NM/NS-1028/2012 Donor acceptor polymeric soft nanomaterials for optoelectronic applications.	Dr. Asha S.K. Department of Polymer Science & Engineering Dr. Homi Bhabha Road National Chemical Laboratory Pune - 411 008 (Maharashtra)	36
10.	16.09.2013	SR/NM/NS-05/2012 Photovoltaic effect on rare rearth doped bismuth ferrite thin films.	Dr. P. Murugavel Department of Physics Indian Institute of Technology-Madras, Chennai - 600 036 (Tamil Nadu)	36
11.	16.09.2013	SR/NM/NS-15/2012 Optical effects in functionalized single walled carbon Nanotubes.	Dr. Harsh Chaturvedi Department of Physics Indian Institute of Science Education and Research Sai Trinity Central Tower Pashan Pune – 411 021 (Maharashtra)	36
12.	18.09.2013	SR/NM/NS-1069/2012 High energy density photochemical fuels based on nanomaterial hybrids.	Dr. Aji A. Anappara Department of Physics National Institute of Technology, Calicut Calicut - 673 601(Kerala)	36
13.	18.09.2013	SR/NM/NS-1109/2012 Design and development of intelligent catalytic nanobots.	Dr. Dipankar Bandyopadhyay Department of Chemical Engineering Indian Institute of Technology-Guwahati Guwahati– 781 039 (Assam)	36
14.	18.09.2013	SR/NM/NS-1110/2012 Synthesis of metal oxide - graphene based nanocomposites for its energy related supercapacitor application.	Dr. (Ms.) Neetu Jha Department of Chemical Engineering Institute of Chemical Technology Matunga, Mumbai– 400 019 (Maharashtra)	36
15.	07.06.2013	SR/NM/NS-52/2012 Targeted delivery of nanoconjugated methylglyoxal to cancer cells and understanding the bioenergetic difference between normal and malignant cells at the molecular level	Dr. (Mrs.) Manju Ray Emeritus Scientist Department of Biophysics Bose Institute, Kolkata- 700 054 (West Bengal)	36
16.	07.06.2013	SR/NM/NS-1101/2011	Dr. Colin Benjamin	36

		Topology, quantum computation and spintronics with Dirac materials.	Department of Physical Sciences, National Institute of Science Education and Research, Bhubaneswar IOP Campus. Sainik School, Bhubaneswar - 751 005 (Odisha)	
17.	23.09.2013	SR/NM/NS-1051/2012 Nanomolecular aggregates from glycolipid mimics and cyclic peptides with application in drug delivery, membrane engineering and vaccine development.	Dr. Muraleedharan K.M. Department of Chemistry Indian Institute of Technology- Madras Chennai 600 036 (Tamil Nadu)	36
18.	23.09.2013	SR/NM/NS-1034/2012 Design, synthesis and application of new classes of easily recoverable and reusable transition metal nanocatalysts: An extension to asymmetric synthesis.	Dr. Sekar Govindasamy Department of Chemistry Indian Institute of Technology-Madras Chennai- 600 036 (Tamil Nadu)	36
19.	25.09.2013	SR/NM/NS-1050/2012 Synthesis and study of the optical, magnetic and electrical properties of co-doped II-IV semiconductor nanocrystals.	Dr. Ranjani Viswanatha International Centre for Materials Science Jawaharlal Nehru Centre for Advanced Scientific Research Jakkur, Bangalore-560 064 (Karnataka)	36
20.	01.10.2013	SR/NM/NS-13/2012 Tuning of metal and metal oxide nanostructures for superhydrophobicity, photocatalysis, luminescence, SERS and useful electrical properties.	Dr. Tarasankar Pal Department of Chemistry, Indian Institute of Technology Kharagpur – 721 302 (West Bengal)	36
21.	20.11.2013	SR/NM/NS-1088/2012 A study on feasibility and sustainability of microwave-enhanced sequential and cascade reactions using mono or bimetallic nanoparticles.	Dr. (Mrs.) Harjinder Kaur Department of Chemistry School of Science Gujarat University, Navrangpura, Ahmedabad– 380 015 (Gujarat)	36
22.	22.11. 2013	SR/NM/NS-1106/2012 Investigation of structural, optical and electrical properties of Ga ₂ O ₃ nanowires grown by CVD technique for nanoscale device applications.	Dr. Rajendra Singh Department of Physics Indian Institute of Technology- Delhi Hauz Khas, New Delhi– 110 016 (Delhi)	36
23.	22.11.2013	SR/NM/NS-1062/2012 Investigation and analysis of nonequilibrium quantum transport and magnetization dynamics in magnetic molecular	Dr. Arijit Sen SRM Research Institute SRM University, Kanchipuram District Kattankulathur - 603 203 (Tamil Nadu)	36

		nanoelectronic devices with optimized electrode topology.		
24.	11.02.2014	SR/NM/NS-1047/2012 Rational design of plasmon-engineered luminescence upconversion nanomaterials for multimodal imaging and therapy	Dr. Amiya Priyam Department of Chemistry, School of Physical and Chemical Sciences, Central University of Bihar, Gaya Campus, Gaya- 823 001 (Bihar)	36
25.	06.03.2014	SR/NM/NS-35/2012 Investigation of interactions and excitations of charge carriers in two novel quantum fluid systems.	Dr. Aweek Bid Department of physics Indian Institute of Science, Bangalore-560 012 (Karnataka)	36

International/ National Conferences supported = 6

Sr.	Date of sanction	DST Reference Number and Conference Title	Organizer details
1.	28.06.2013	SR/NM/Z-05/2013 International Workshop on “Nanotechnology and Advanced Functional Materials” at National Chemical Laboratory, Pune by Materials Research Society of India (Pune Chapter)	Dr. Sangeeta Kale Department of Applied Physics Defence Institute of Advanced Technology Pune -411 025 (Maharashtra)
2.	06.09.2013	SR/NM/Z-12/2013 International Conference on Structural and Physical Properties of Solids (SSPS 2013) Focal Theme: “Smart Materials at Nano and Micro Scale” during November 18-20, 2013 at Indian School of Mines, Dhanbad 826 004 (Jharkhand)	Dr. S.K. Sharma Department of Applied Physics Indian School of Mines, Dhanbad Dhanbad 826 004 (Jharkhand)
3.	13.11.2013	SR/NM/Z-15/2013 International Conference on Nanoscience and Nanotechnology” during November 18-20, 2013 at Babasaheb Bhimrao Ambedkar University, Lucknow- 226 025 (Uttar Pradesh)	Dr. B.C. Yadav Department of Applied Physics Babasaheb Bhimrao Ambedkar University Vidya Vihar, Raebareli Road Lucknow- 226 025 (Uttar Pradesh)
4.	28.02.2014	SR/NM/Z-04/2013 6th Bangalore India Nano 2013 organized during December 4-6, 2013 at Bangalore.	The Managing Director Karnataka Biotechnology and Information Technology Services Department of Karnataka 9, UNI Building, Thimmaiah Road Millers Tank Bed, Vasanthnagar

			Bangalore-560052 (Karnataka)
5.	28.02.2014	SR/NM/Z-04/2014 Conference on Nano Materials with special reference to energy security” during March 12-14, 2014 at Department of Physics, Banaras Hindu University, Varanasi- 221 005 (Uttar Pradesh)	Prof. O.N Srivastava Department of Physics Banaras Hindu University Varanasi- 221 005 (Uttar Pradesh)
6.	28.02.2014	SR/NM/Z-10/2013 International Conference on Nano Science and Technology - 2014 (ICONSAT-2014)” at Chandigarh.	Prof. Ashok K Ganguli Director Institute of Nano Science and Technology (INST) Habitat Centre, Phase -10, Sector-64 Mohali- 160 062 (Punjab)