

## NEW PROJECTS SANCTIONED DURING FY 2014-2015 BY NANO MISSION

### Individual Scientist-Centric Research Projects = 38

Sr. No.	Date of sanction	DST Reference Number and Project Title	Principal Investigator details	Project duration (months)
1.	24.04.2014	SR/NM/NS-1145/2012 Development of si-RNA loaded nanomedicines and their evaluations in pre-clinical cellular and computational models. SR/NM/NS-1145/2012-IITB  SR/NM/NS-1145/2012-NIRRH	1.Dr. Ratnesh Jain Department of Chemical Engineering, Institute of Chemical Technology (ICT), Matunga, Mumbai-400 019 (Maharashtra)  2.Dr. Sameer Jadhav Department of Chemical Engineering, Indian Institute of Technology-Bombay, Powai, Mumbai, Mumbai-400 076 (Maharashtra)  3.Dr Deepak Modi, Department of Molecular and cellular Biology, National Institute for research in Reproductive Health (NIRRH), Jehangir Merwanji Street, Parel, Mumbai-400012(Maharashtra)	36
2.	05.06.2014	SR/NM/NS-1070/2012 Role of engineered nanoparticles on reproductive and developmental toxicity: A multigenerational approach.	Dr. Bindhu Paul Amrita Centre for Nanosciences and Molecular Medicine Amrita Institute of Medical Sciences Ponekkara P.O. Ernakulam - 682 041(Kerala)	36
3.	05.06.2014	SR/NM/NS-18/2011 Magnetic nanoparticles as catalyst for carbon-carbon bond forming reactions.	Dr. Prodeep Phukan Department of Chemistry Gauhati University Guwahati –781014 (Assam)	36
4.	16.06.2014	SR/NM/NS-1048/2013 Oxides nanostructures: processing, properties and some specific applications towards healthcare.	Dr. D. Bahadur Department of Metallurgical Engineering & Materials Science Indian Institute of Technology- Bombay, Powai Mumbai -400 076 (Maharashtra)	36
5.	19.06.2014	SR/NM/NS-1024/2011 Construction and evaluation of lithium ion battery with synthesized nano structured cathode materials - lithium compounds (LiCoPO <sub>4</sub> , LiNiPO <sub>4</sub> and LiM <sub>1-x</sub> Y <sub>x</sub> PO <sub>4</sub> , Y =Co or Ni, M = Y, Gd, Sm, Eu).	Dr. Subramanian Selvasekarapandian Department of Nanoscience & Technology Tamil Nadu Agricultural University Coimbatore-641 003 (Tamil Nadu)	36
6.	04.07.2014	SR/NM/NS-1099/2012	Dr. Manickam Sasidharan	36

		Polymeric graphitic-carbon-nitride semiconductor nanomaterials for next-generation lithium-ion rechargeable batteries: synthesis, characterization, device fabrication and testing.	SRM Research Institute SRM University Chennai– 603 203 (Tamil Nadu)	
7.	25.07.2014	SR/NM/NS-1137/2011 Development of microfluidics immunoassay for detection of Salmonella Typhimurium.	Dr. Dhananjay Bodas Centre for Nanobioscience Agharkar Research Institute Agarkar road, Pune - 411 004 (Maharashtra)	36
8.	31.07.2014	SR/NM/NS-1068/2013 Development of dendrimeric sunscreens containing polyphenols	Dr. Srinivas Mutalik Dept. of Pharmaceutics Manipal College of Pharmaceutical Science, Manipal University, Manipal -567104(Karnataka)	36
9.	04.08.2014	SR/NM/NS-1022/2013 Structure-activity relationships in design of biologically relevant nanostructures.	Dr. Neetu Singh Centre for Biomedical Engineering Indian Institute of Technology- Delhi, New Delhi – 110016	36
10.	21.08.2014	SR/NM/NS-1176/2012 Metal nanoparticles with a knack for anion/molecular recognition: Synthesis, water dispersion, sensing and bio-conjugation.	Dr. Tarun Kumar Mishra Department of Chemistry National Institute of Technology Agartala – 799 055 (Tripura)	36
11.	01.09.2014	SR/NM/NS-1110/2013 Biogenic synthesis of silver nanoconjugates with natural products.	Dr. Nagarajan Jega Arumugam Department of Pharmaceutical Chemistry PSG College of Pharmacy Coimbatore – 641 004 (Tamil Nadu)	36
12.	01.09.2014	SR/NM/NS-47/2013 Ab-initio investigations of structural and electronic properties of Zn (Cd)-VI nanowires.	Dr. Anurag Srivastava ABV-Indian Institute of Information Technology and Management, Gwalior – 474 015 (Madhya Pradesh)	36
13.	04.09.2014	SR/NM/NS-1105/2013 Nanoporous materials.	Dr. Farid Khan Department of Chemistry Dr. H.S. Gour University Sagar-470 003 (Madhya Pradesh)	36
14.	12.09.2014	SR/NM/NS-1040/2013 Nano-bead based approach to identify suitable vaccine candidate for latent mycobacterium tuberculosis.	Dr. Nooruddin Khan School of life Science University of Hyderabad Gachibowli Hyderabad – 500 046 (Telangana)	36
15.	19.09.2014	SR/NM/NS-1034/2011 Recyclable magnetic nanoparticles supported catalysis for enantioselective synthesis	Dr. Jyotirmayee Dash Department of Organic Chemistry Indian Association for the Cultivation of Science – Jadavpur Kolkata – 700 032 (West Bengal)	36
16.	25.09.2014	SR/NM/NS-04/2014 Growth and characterization of nanomaterials employing green	Dr. M. A Shah Department of Physics National Institute of Technology,	36

		approaches.	Srinagar Hazratbal, Srinagar – 190 006 (Jammu and Kashmir)	
17.	25.09.2014	SR/NM/NS-1249/2013 Spectroscopy and imaging down to subnanometer length scales on novel electronic systems and their nanostructured devices.	Dr. Gautam Sheet Department of Physics Indian Institute of Science Education and Research, Mohali IISER Mohali, Knowledge City, Sector-81 Manauli-140 306 (Punjab)	36
18.	25.09.2014	SR/NM/NS-1052/2013 Hydrogen-bonding mediated nano structured supramolecular assembly of donor- acceptor building blocks.	Dr. Suhrit Ghosh Department of Polymer Science Indian Association for the Cultivation of Science Kolkata – 700 032(West Bengal)	36
19.	25.09.2014	SR/NM/NS-1160/2013 Microwaves monolithic devices using magnetic nanostructures.	Dr. Bijoy Kumar Special Centre for Nanoscience Jawaharlal Nehru University Delhi – 110 067 (Delhi)	36
20.	25.09.2014	SR/NM/NS-27/2012 Fabrication and application of functionalized magnetic carbon quantum dots (MCQD) in tumor therapy: A new light on nanotheranostics.	Dr. Sasmita Mohapatra Department of Chemistry National Institute of Technology, Rourkela – 769 008 (Odisha)	36
21.	26.09.2014	SR/NM/NS-05/2014 Soft ionization ion mobility mass spectrometry of atomically precise clusters of noble metals.	Dr. T. Pradeep Department of Chemistry Indian Institute of Technology- Madras Chennai – 600 036 (Tamil Nadu)	36
22.	13.10.201	SR/NM/NS-25/2012 Molecular structural evolution of nanoparticles mediated amyloid protein fibrils.	Dr. Anushree Roy Department of Physics Indian Institute of Technology – Kharagpur – 721 302 (West Bengal)	36
23.	21.10.2014	SR/NM/NS-26/2013 Investigations on photoinduced reactions of certain porphyrins with metal nanoclusters modified TiO <sub>2</sub> .	Dr. R. Renganathan School of Chemistry Bharathidasan University Tiruchirappalli – 620 024 (Tamil Nadu)	36
24.	21.10.2014	SR/NM/NS-1228/2013 Real-time biosensor nano-devices for detection and identification of multiple pathogens.	Dr. Anup Atul Kale Department of Biosciences and Technology Defence Institute of Advanced Technology (DIAT) Pune – 411 025 (Maharashtra)	36
25.	21.10.2014	SR/NM/NS-1067/2013 Development of high performance metal-carbon nanotube bolometer.	Dr. Abha Mishra Department of Instrumentation and Applied Physics Indian Institute of Science Bangalore – 560 012 (Karnataka)	36

26.	21.10.2014	SR/NM/NS-1183/2013 Josephson coupling through ferromagnetic barriers.	Dr. K. Senapati Department of Physics National Institute of Science Education and Research Bhubaneswar – 751 005 (Odisha)	36
27.	21.10.2014	SR/NM/NS-1176/2013 Low-cost and shape-tailored nano catalysts for volatile organic compound emission control.	Dr. Nitin Kumar Labhsetwar Department of Environmental Materials Division Neeri Nagpur – 440 020 (Maharashtra)	36
28.	27.01.2014	SR/NM/NS-1123/2013 Nanoscale modelling of energy-storage materials.	Dr. Ravindran Ponniah Department of Physics Central University of Tamil Nadu, Thiruvarur (Tamil Nadu)	36
29.	27.10.2014	SR/NM/NS-1260/2013 Development of multi-functional manocarriers for cancer theranostics.	Dr. Prabakaran Mani Department of Chemistry Hindustan Institute of Technology and Science Chennai – 603 103 (Tamil Nadu)	36
30.	17.11.2014	SR/NM/NS-1128/2012 Fluorescent protein-reporter based assay to measure toxicity of nanomaterials.	Dr. P. Rajaguru Department of Biotechnology Anna University – BIT Campus, Tiruchirappalli – 620 024 (Tamil Nadu)	36
31.	10.12.2014	SR/NM/NS-1117/2013 Ultrafast Photocatalytic reaction mechanisms and dynamics at the semiconductor – supported metal nanoparticle (NP) surfaces in ultra-high vacuum (UHV).	Dr. Atanu bhattacharya Department of Inorganic and Physical Chemistry Indian Institute of Science-Bangalore – 560 012 (Karnataka)	36
32.	16.12.2014	SR/NM/NS-1144/2013 Development of nanobiochip for oral cancer detection.	Dr. Partima R. Solanki Special Center for Nanoscience Jawaharlal Nehru University Delhi – 110 067(Delhi)  Dr. A.K. Dinda Department of Pathology AIIMS Ansari Nagar Delhi – 110 029 (Delhi)	36
33.	23.01.2015	SR/NM/NS-1035/2013 Structure, pattern and elastic behavior of model membranes in presence of nanomaterials.	Dr. Sarathi Kundu Physical Science Division Institute of Advanced Study in Science and Technology Guwahati – 781 035 (Assam)	36
34.	27.01.2015	SR/NM/NS-06/2014 Physics of nanosystems probed by ultrafast time resolved spectroscopy and Raman scattering.	Dr. A.K. Sood Department of Physics Indian Institute of Science, Bangalore – 560 012 (Karnataka)	36
35.	17.02.2015	SR/NM/NS-1114/2013	Dr. Rohit Srivastava	

		Development of a nanoengineered dual release graft for pain/inflammation management in osteoarthritis.	Department of Biosciences and Bioengineering Indian Institute of Technology- Bombay, Powai Mumbai -400 076 (Maharashtra)	
36.	03.03.2015	SR/NM/NS-1212/2013 Design and development of functional nano-materials for molecular magnets, ceramics, cancer chemotherapy and sensor applications.	Dr. B. Singh Department of Chemistry Faculty of Science, Banaras Hindu University Varanasi-221 005 (Uttar Pradesh)	36
37.	18.03.2015	SR/NM/NS-1262/2013 Green Synthesis of pure/doped nanometal oxides, metal oxide-reduced graphene oxide hybrid nanomaterials: Applications to H <sub>2</sub> generation, Li battery, energy saving, photodegradation and biological effect.	Dr. G. Nagaraju Department of Chemistry Siddaganga Institute of Technology Tumkur - 572 103 (Karnataka)	36
38.	24.03.2015	SR/NM/NS-1161/2013 Development of metal-oxide heterostructures for nanoelectronic and photocatalytic applications.	Dr. Chaitanya Lekshmi Indira Department of Chemistry CMR Institute of Technology #132, AECS Layout, IT Park Road Bangalore -560 037 (Karnataka)	36

**International Conference/National Conference/ Symposium/ Workshop supported = 7**

<b>Sr.</b>	<b>Date of sanction</b>	<b>DST Reference Number and Conference Title</b>	<b>Organizer details</b>
1.	19.05.2014	SR/NM/Z- 18/2012 12 <sup>th</sup> International Conference on Surface X-ray and Neutron Scattering (SXNS)'' being organised at Kolkata	Prof. Abhijit Chakraborty Professor & Head, CARE Saha Institute of Nuclear Physics 1/AF, Bidhannagar Kolkata-700064(West Bengal)
2.	09.06.2014	SR/NM/Z- 14/2014 National Summit: "NANO" India: Policy and Regulations & Innovation Excellence Awards.	Mr. D.S. Rawat Secretary General ASSOCHAM 5, Sardar Patel Marg, Chanakyapuri New Delhi-110 021 (Delhi)
3.	02.12.2014	SR/NM/Z-27/2014 International Symposium on Nanotechnology & Cancer Theragnostics	Prof. D. Bahadur Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Powai , Mumbai - 400076
4.	03.12.2014	SR/NM/Z-23/2014 7th Bangalore INDIA NANO 2014 being organized by Department of IT, BT and S&T, Government of Karnataka	Dr. H. Honne Gowda CEO & Member Secretary, Karnataka Science and Technology Promotion Academy, Vijnana

			Bhavan, 3 <sup>rd</sup> floor, No 24/2, 21 <sup>st</sup> Main Road, BSK II Stage, Bangalore-560 070 (Karnataka)
5.	17.11.2014	SR/NM/Z-19/2014 “Nano India Meet 2015” during January 29-30, 2015 at the SASTRA University, Thanjavur, Tamil Nadu.	Dr. S. Swaminathan Centre for Nanotechnology & Advanced Biomaterials, SASTRA University, Thanjavur- 613 401 (Tamil Nadu).
6.	23.02.2015	SR/NM/Z-32/2014 Conference on “Nano Science and Life” during February 28 - March 02, 2015 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)
7.	18.03.2015	SR/NM/Z-15/2015 National Symposium on “Nanomaterials and sustainable synthetic strategies” during March 21-22, 2015 at Department of Chemistry, Banaras Hindu University, Varanasi- 221 005 (Uttar Pradesh).	Prof. K N Singh Department of Chemistry Banaras Hindu University Varanasi- 221 005 (Uttar Pradesh)