

List of New Projects supported during F.Y. 2015-16 : Water Technology Initiative

S.No	File No. and sanction date	Title	PI Name & Institution Address	Duration (in months)	Total Cost (in Rs.)
1	DST/TM/WTI/2K14/231 13.04.2015	Fabrication of LDH-GO-Clay hybrid integrated candles for improved purification of domestic water.	Dr. Kulamani Parida, Siksha'O' Anusandhan University, Bhubaneswar, Odisha	24 months	22,00,000
2	DST/TM/WTI/2K14/232 20.04.2015	Development of adsorbent Based on Graphene Oxide for Removal of Heavy Metal Ions, Dyes and other organic pollutants present in water.	Dr. Dipankar Chattopadhyay, Calcutta University, Kolkata	24 months	22,00,000
3	DST/TM/WTI/2K14/205 04.06.2015	Development of nano-fiber membranes for reduction/elimination of Microbial elements for purification of water.	Dr. P. K. Panda, CSIR-National Aerospace Laboratories, Bangalore	36 months	34,04,600
4	DST/TM/WTI/2K14/236 09.06.2015	Development of Titanic pillared clay membranes for catalytic wastewater treatment.	Dr. Tanushree Chaudhary, VIT University, Chennai	36 months	21,10,000
5	DST/TM/WTI/2K15/UNL/IUSSTF 11.06.2015	Capacity Building for best practices on Integrated management of water resources.	Dr. Rajiv Tayal, Indo-US Science and Technology Forum, New Delhi	36 months	6,05,51,000
6	DST/TM/WTI/2K14/190 22.06.2015	Seaweeds for bioremediation in Recirculatory Aquaculture Systems.	Dr. P. Nila Rekha, CIBA, Chennai	36 months	22,30,000
7	DST/TM/WTI/2K14/228 08.09.2015	Development of an affordable and robust disinfection system for rural India	Dr. Shihabudheen M. Maliyakkal, VIT University, Chennai	24 months	27,95,590
8	DST/TM/WTI/2k15/CEFIPRA 01.10.2015	DST-CEFIPRA Joint Call on 'Indo French Networking Proposals in Water for advanced research.	Dr. Mukesh Kumar, Director, Indo-French Centre for the Promotion of Advanced Research, CEFIPRA, 5B, Ground floor, India Habitat Centre Lodhi Road, New Delhi-110003.	24 months	77,03,510 (DST Share only)
9	DST/TM/WTI/2K14/196 7.12.2015	Investigation of groundwater dynamics vis-à-vis the recharge potentials of ground water at Andhra University campus, Visakhapatnam	Prof. GVR Srinivasa Rao, Andhra University College of Engineering, Visakhapatnam	36 months	1,00,92,000
10	DST/TM/WTI/2K15/04 11.02.2016	(i) Bank Filtration for Sustainable Drinking Water Supply.	(i) Dr. Narayan C. Ghosh, National Institute of Hydrology, Roorkee. (ii) Dr. D.P. Uniyal, UCOST, Dehradun.	24 months	38,40,000

		(ii) Handbook Manual on Bank filtration technique			8,15,000
11	DST/TM/WTI/2K15/11 11.02.2016	Supported Cation Exchange and Anion Exchange Membranes by Phase Inversion Process for Electrodialysis Applications	Dr. Uma Chatterjee, Central Salt and Marine Chemicals Research Institute, Bhavnagar	36 months	21,80,000
12	DST/TM/WTI/2K15/51 22.02.2016	Development of field test kit method for analysis of chromium in water	Dr. Meenu Talwar, Shriram Institute for Industrial Research, New Delhi	12 months	4,79,600
13	DST/TM/WTI/2K15/126 29.02.2016	Treatment of Wastewater containing pesticides and emerging contaminants using novel approach of combined hydrodynamic cavitation and oxidation processes	Dr. Parag R. Gogate, ICT, Mumbai	36 months	53,01,400
14	DST/TM/WTI/2K15/130 08.03.2016	A Community Based Participatory Aquifer Management System for Equity and Sustainability in Water Resource Management	Shri Bhupendra Paliwal, Ramkrishna Jaidayal Dalmia Seva Sansthan	36 months	4,25,16,200
15	DST/TM/WTI/2K15/74 11.03.2016	Synthetic mineralization by simple, cost-effective way for permanent removal of toxic contaminants from water	Dr. Sugata Ray, Indian Association for the Cultivation of Science, Kolkata	36 months	99,13,062
16	DST/TM/WTI/2K15/167 11.03.2016	Feasibility assessment and customization of biological dye removal process for industrial wastewater treatment	Dr. Anushree Malik, Foundation for Innovation and Technology Transfer, IIT Delhi	36 months	1,00,33,800
17	DST/TM/WTI/2K15/120 14.03.2016	UASB up gradation and its post treatment by Aerobic Granular Biomass system	Dr. Abid Ali Khan, Department of Civil Engineering, Jamia Millia Islamia, New Delhi	36 months	32,96,670
18	DST/TM/WTI/2K15/203 14.03.2016	III-nitride deep UV LED for water sterilization	Dr. Digbijoy N. Nath, Indian Institute of Science (IISc), Bangalore	36 months	1,48,78,400
19	DST/TM/WTI/2K15/118 16.03.2016	In situ Arsenic sequestration using engineered nanomaterials	Prof. Himanshu Joshi, Indian Institute of Technology, Roorkee, Uttarakhand	18 months	30,37,100
20	DST/TM/WTI/2K15/129 17.03.2016	Prototype development and conduction of pilot study for commercialization of Nanotechnology based Pocket Friendly, Reusable Water purifier	Dr. Suman, Amity University, Noida	24 months	38,05,000

21	DST/TM/WTI/2K15/229 18.03.2016	Enhancement of Groundwater Recharge by Soil Ventilation	Dr L. Elango, Anna University, Chennai	36 months	24,39,000
22	DST/TM/WTI/2K15/192 18.03.2016	Pharmaceutical and Personal Care Products Removal and their Bio-toxicity Assessment in Membrane-Bioreactor with Immobilized biomass (iMBR) and Carrier-Supported-Biomass (casMBR)	Dr. S. Mathava Kumar, Indian Institute of Technology Madras, Chennai	36 months	34,75,000
23	DST/TM/WTI/2K15/135 23.03.2016	A Scientometric approach to study Arsenic, Fluoride, Nitrate and other heavy metals in drinking water during the 1995-2015 period: An outlook to treatment alternatives for removal of contamination	Dr. (Mrs.) Madhulika Bhati, CSIR-National Institute of Science, Technology and Development Studies, New Delhi.	24 months	23,95,000
24	DST/TM/WTI/2K15/144 28.03 .2016	Development of Water Quality Monitoring & Surveillance (WQM&S) Model in Selected Rural Areas of Uttarakhand (Phase II)	Dr. Prashant Singh, Uttarakhand State Council for Science and Technology (UCOST), Dehradun.	36 months	38,20,800 (DST share only)
25	DST/TM/WTI/2K15/228 28.03.2016	Polymer based sensor for detecting nitrate in water	Dr. Dr. Praveen C Ramamurthy, Indian Institute of Science, Bangalore	36 months	54,37,600
26	DST/TM/WTI/2K15/112 28.03. 2016	Boron Nitride Based Adsorbent for Removal of Arsenic from Aqueous Streams	Dr. Niraj Sinha, Indian Institute of Technology, Kanpur	36 months	42,60,000
27	DST/TM/WTI/2K15/225 28.03.2016	Studies on nanoparticles assisted dispersion of biofilms formed in drinking water distribution system	Dr. Asifa Qureshi, National Environmental Engineering Research Institute, Nagpur, Dr Jyutika Rajwade, Agharkar Research Institute, Pune	24 months	43,34,000
28	DST/TM/WTI/2K15/113 29.03. 2016	Design and development of porous Silicon based biosensor for Chromium detection in and around of Sukinda Mines Valley, Odisha	Dr Paresh G. Kale & Dr. P. Balasubramanian, NIT, Rourkela, Odisha	36 months	29,09,600
29	DST/TM/WTI/2K15/148 29.03. 2016	Techno-economic validation and optimization studies for Mobile Water Kit (MWK) developed for rapid testing of E. coli and coliform bacteria in drinking water	Dr K. Vijaya Lakshmi, Development Alternatives, New Delhi.	12 months	20,21,863

30	DST/TM/WTI/2K15/201 29.03.2016	A Novel Water Purification System with Silver Nanoparticle Coated Micro-Channel Arrangement for Filter Less Purification of Water and Embedded Waveguide for Purity Indicator	Dr. Amit Prabhakar, Indian Institute of Information Technology Allahabad, Allahabad.	36 months	25,18,947
31	DST/TM/WTI/2K15/160 29.03.2016	Clean and safe Drinking Water supply to rural community using River bankfiltration technique in Hard Rock Regions of Krishna Basin, Karnataka, India	Dr. Bekalkunkangar Purandara, National Institute of Hydrology, Karnataka	36 months	95,50,200
32	DST/TM/WTI/2K15/84 29.03.2016	Computing for Water: Molecular Dynamics Simulations of nanoscale hydrodynamics for the development of efficient water desalination technology	Dr. Sarith P Sathian, Indian Institute of Technology, Madras.	36 months	36,77,520
33	DST/TM/WTI/2K15/93 29.03.2016	Study to complete mineralization of pesticides found in water resources of eastern India by heterogeneous photocatalytic ozonation route using visible light active bismuth based semiconducting nanoparticles as photocatalyst	Dr. Braja Gopal Mishra, National Institute of Technology, Rourkela, Odisha	36 months	26,13,200
34	DST/TM/WTI/2K15/60 29.03.2016	Development and testing of nano-geo tracers: Understanding groundwater flow dynamics and contaminants migration in various geo-environments	Dr. Rama Ranjan Bhattacharjee, PSG Institute of Advanced Studies, Coimbatore and CSIR- National Geophysical Research Institute, Hyderabad	24 months	34,46,400
35	DST/TM/WTI/2K15/52 30.03.2016	Development of Real Time Wireless Embedded Multi-Sensor System for Monitoring of RO plants with Water Quality	Dr. Shashikant Sadistap, CSIR-Central Electronics Engineering Research Institute, Pilani	36 months	1,02,83,000
36	DST/TM/WTI/2K15/57 30.03.2016	Development of nanochitosan/ montmorillonite clay/polyvinyl alcohol nanofiltration mats for heavy metal containing tannery effluent treatment	Dr (Mrs.) P.N. Sudha, DKM College for Women, Vellore, TN.	36 months	37,35,000