

List of New Projects supported during F.Y. 2016-17: 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/2K15/35 22.04.2016	Development of sustainable water treatment system based on Microbial Desalination Process for Salt Removal.	Dr. S Venkata Mohan CSIR-Indian Institute of Chemical Technology Hyderabad.	36 months	41,35,000
2.	DST/TM/WTI/2K15/101 22.04.2016	Removal of Micropollutants from Water using TiO ₂ Nanocomposites	Dr. SuparnaMukherjiIndian Institute of Technology Bombay	36 months	34,85,020
3.	DST/TM/WTI/2K15/219 25.04.2016	Solar Powered High Recovery Desalination (SPHRD) to provide clean water	Dr. Anurag Mudgal Pandit Deendayal Petroleum University (PDU) Gujarat.	36 months	62,73,200
4.	DST/TM/WTI/2K15/22 26.04.2016	Use of chemically treated carbonized bone meal for fluoride mitigation from drinking water	Dr. Sirshendu De Indian Institute of Technology- IIT Kharagpur West Bengal.	36 months	26,95,000
5.	DST/TM/WTI/2K15/58 10.05.2016	Development of Fouling and bacterial resistant PVDF hybrid Membrane for water treatment	Dr. SmitaMohanty CIPET LARPM Bhubaneswar Odisha.	36 months	32,46,400
6.	DST/TM/WTI/2K15/168 06.06.2016	Carbon-Alumina composites for defluoridation of water	Dr K.S. Rama Rao CSIR-Indian Institute of Chemical Technology Hyderabad Telangana.	24 months	25,02,500
7.	DST/TM/WTI/2K15/75 07.06.2016	Development of Solar-Photocatalytic Process for Concurrent Decontamination of Antibiotics and Bacteria from Hospital Effluent	DrSuraj Kumar Tripathy KIIT University Bhubaneswar Odisha.	36 months	34,23,200
8.	DST/TM/WTI/2K15/164 08.6.2016	Extraction of residual synthetic dyes from textile dyebath effluent using solvents in multistage centrifugal extractor	Dr. P. Ramalingam Kumaraguru College of Technology (KCT) Coimbatore.	24 months	27,85,400
9.	DST/TM/WTI/2K15/174 08.06.2016	Nanocellulose based composites for chromium decontamination and speciation in aqueous system	Dr Abhishek Kardam Amity University Noida.	36 months	30,81,800
10.	DST/TM/WTI/2K15/46 08.06.2016	Engineering of interlayer spacing in grapheme oxide stack and defects in graphene for selective molecular sieving	Dr. Chandan Srivastava Indian Institute of Science (IISc) Bangalore.	36 months	19,80,000

11.	DST/TM/WTI/2K15/182 08.06.2016	Microbiology of arsenic contaminated groundwater of Bengal delta plain: deciphering the role of subsurface microorganism in as release and prospect for in situ remediation	Dr. Pinaki Sar Indian Institute of Technology Kharagpur.	36 months	41,25,521
12.	DST/TM/WTI/2K15/12 08.06.2016	Development of organic-inorganic beaded polymeric network for the defluoridation of water	Dr Saroj Sharma CSIR-Central Salt & Marine Chemicals Research Institute Bhavnagar Gujarat.	36 months	20,11,020
13.	DST/TM/WTI/2K15/105 15.06.2016	Development and evaluation of ceramic membranes for removal of recalcitrant organics like PPCPs in polluted water	Dr. Sourja Ghosh CSIR-Central Glass & Ceramic Research Institute Kolkata.	24 months	27,33,500
14.	DST/TM/WTI/2K15/196 15.06.2016	Monitoring of Water-borne Protozoan Parasites (Cryptosporidium) using a Bacterial Surrogate and its Validation using a scale-up model	Dr. Sandhya Shrivastava Bhavan's College Mumbai.	36 months	39,24,966
15.	DST/TM/WTI/2K15/210 17.06.2016	Process optimization studies on removal of heavy metals from waste water using mixed adsorbents	Dr D. Krishna MVGR College of Engineering Vizianagaram A.P.	36 months	26,58,000
16.	DST/TM/WTI/2K15/63 06.07.2016	Removal of Pharmaceutical and personal care products (PPCPs) from contaminated water using pine needle based Activated Carbon/Biological Activated Carbon	Dr. Vasudha Agnihotri G.B. Pant Institute of Himalayan Environment and Development Uttarakhand	36 months	35,76,000
17.	DST/TM/WTI/2K15/01 06.07.2016	Development of nonwoven fabric based water filtration system to provide safe drinking water in rural area	Prof. Apurba Das Indian Institute of Technology Delhi.	36 months	29,40,000
18.	DST/TM/WTI/2K15/109 11.07.2016	Geochemical processes governing in situ remediation of fluoride-bearing groundwater using suitable chemical amendments	Dr. Abhas Singh IIT Kanpur Uttar Pradesh.	36 months	44,84,154
19.	DST/TM/WTI/2K16/72 14.09.2016	Integrated Domestic Wastewater Treatment System with Multi-species and Dual Media Constructed Wetland	Dr. Guru. Ramchandra Munavalli Walch and College of Engineering Sangli Maharashtra	36 months	43,21,800
20.	DST/TM/WTI/2K16/126 19.09.2016	Decentralized domestic wastewater treatment using hybrid system constructed wetland for efficient nutrients and organic waste removal	Dr Lalsangzela Sailo Mizoram University.	36 months	38,29,000

21.	DST/TM/WTI/2K15/121 19.09.2016	Removal and Recovery of Pharmaceuticals from water using sustainable magnetic and nonmagnetic biochars	Prof. Dinesh Mohan Jawaharlal Nehru University New Delhi	36 months	41,72,000
22.	DST/TM/WTI/2K16/229 23.09.2016	Intervention of artificial glacier technology to solve water crises due to climate change in Ladakh Trans-Himalayan region	Mr. Chhering Tandup Institute of Mountain Environment University of Jammu Bhadarwah.	24 months	47,52,000
23.	DST/TM/WTI/2K15/195 28.09.2016	Arsenic free South 24 Parganas district using Indian technologies and design of an appropriate solution by large implementation in the field	Dr. T. Pradeep Indian Institute of Technology Madras.	36 months	3,74,88,000 (DST share only)
24.	DST/TM/WTI/2K16/204 28.09 .2016	Conjunctive use of Rainwater and Groundwater to provide safe drinking water with intervention of Advanced Technology	Dr. Rajiv Gupta BITS Pilani.	36 months	1,26,43,000 (DST share only)
25.	DST/TM/WTI/2K16/45 27.09.2016	Development of a Smart Control System for a Water Distribution Network	Dr. Indrajit Banerjee Indian Institute of Engineering Science and Technology West Bengal	36 months	76,04,000
26.	DST/TM/WTI/2K16/190 28.09. 2016	INNOWATER: Assessment and Evolvment of Novel and Rapid Water Quality Monitoring Sensors in Rural Settings of Bihar India	Dr. Ashok Ghosh A.N.College Patna	24 months	1,38,92,000 (DST share only)
27.	DST/TM/WTI/2K16/168 29.09.2016	Ensuring A safe Environment- Treatment of Emerging Contaminants (EASE-TEC)	Dr. Shaik Ziauddin Ahammad Indian Institute of Technology Delhi New Delhi.	24 months	1,40,00,800
28.	DST/TM/WTI/2K16/240 21.10.2016	Development of electro-deionization unit for continuous production of demineralized water (resistivity: 1-10 MΩ/cm) with zero discharge without any resin regeneration	Dr. Vinod K. Shahi CSIR- Central Salt & Marine Chemicals Research Institute Bhavnagar	36 months	43,64,200
29.	DST/TM/WTI/2K16/21 27.10.2016	Installation of a pilot plant of 10 KLD capacity comprising ZnO-Graphene based sensitive photo catalytic filter for visible light catalysis and carbon nano-mat fiber filter for the treatment of the effluent of CETP Jodhpur as	Dr. Shantanu Bhattacharya Indian Institute of Technology Kanpur	36 months	1,19,03,000 (DST Share only)

		a replacement of their secondary treatment unit and development of an alternative low cost process for dye adsorption on acid modified soil.			
30.	DST/TM/WTI/2K16/144 27.10.2016	Development of an alternative methodology to existing industrial wastewater treatment practices using hydrodynamic cavitation for effective removal of COD and ammoniacal nitrogen with reduced cost	Dr. Vinay M. Bhandari CSIR-National Chemical Laboratory Pune	36 Months	60,82,000
31.	DST/TM/WTI/2K16/277 27.10.2016	Low level fluoride detection by cost effective chemosensor along with the mitigation of excess fluoride from different water resources by using naturally abundant indigenous adsorption material	Dr. Priyabrata Banerjee CSIR - Central Mechanical Engineering Research Institute (CMERI) Durgapur	36 Months	48,23,000 (DST Share only)
32.	DST/TM/WTI/2K16/73 02.11.2016	Membrane based efficient energy storage clean energy generation and waste water treatment system	Dr. S. Senthilmurugan Indian Institute of Technology Guwahati.	36 months	1,29,19,200
33.	DST/TM/WTI/2K16/23 15.12.2016	Carbon bead-supported carbon nanofibers immobilized with photocatalysts for the treatment of the effluent water from pharmaceutical industries	Dr. Raju Kumar Gupta Indian Institute of Technology Kanpur Kanpur	36 months	34,80,000
34.	DST/TM/WTI/2K16/02 16.12.2016	Nanotechnology based selective detection of endocrine disrupting chemicals in contaminated water	Dr. Nikhil Ranjan Jana Indian Association for the Cultivation of Science Kolkata	36 months	20,90,000
35.	DST/TM/WTI/2K16/226 29.12.2016	Development of mixed metal(hydro)oxide material for adsorptive removal of fluoride from ground water at circumneutral conditions	Dr. Atul Vishnupant Maldhure CSIR-National Environmental Engineering Research Institute Nehru Marg Nagpur	36 months	28,18,400
36.	DST/TM/WTI/2K16/82 21.02.2017	Treatment of Tannery Effluents: Custom Designed Membrane Separation Approach to Reduce the Pollution and Power Load	Dr. Nishad Fathima CSIR-Central Leather Research Institute Adyar Chennai.	36 Months	41,62,840

37.	DST/TM/WTI/2K16/113 27.02.2016	Design and development of lab scale prototype water purification system using modified hydroxyapatite based nanocomposites for removal of strontium in ground water	Dr. R. Selvakumar PSG Institute of Advanced Studies Coimbatore.	36 Months	21,37,520
38.	DST/TM/WTI/2K16/254 28.02.2017	Strategies to harness Runoff Rundown from mountainous watersheds by rejuvenation of tanks and artificial recharge to increase utilizable water: A case of Thiruvannamalai Hills Tamil Nadu	Dr. Marykuty Abraham Sathyabama University Chennai.	36 Months	10,34,440
39.	DST/TM/WTI/ 2K16/309	Collaboration Research on river water and Air Quality Monitoring	Dr. Rajiv Tayal Executive Director IUSSTF, New Delhi	60 Month	16,42,70,000
40.	DST/TM/WTI/2K16/219 01.03.2017	Identification of Arsenic and Fluoride and Arsenic vulnerability zones in the rural central Gangetic plain and southern regions of India and remediation of drinking water using environmental friendly nanomaterials	Dr. S. Narayana Kalkura Anna University Chennai & Jawaharlal Nehru University New Delhi	36 Months	48,43,960
41.	DST/TM/WTI/2K16/215 03.03.2017	Real-time sensing and nitrogen removal from the wastewaters	Dr. P. Suresh Kumar SASTRA University Thanjavur Tamilnadu.	36 Months	36,09,700
42.	DST/TM/WTI/2K16/42 9.03.2017	Development of ternary nanocomposite hydrogel derived from functionalized biopolymer amylose /TiO ₂ -Ag NPs and its potential application towards treatment of wastewater	Dr. Sagar Pal Indian Institute of Technology (Indian School of Mines) Dhanbad.	36 months	23,90,520
43.	DST/TM/WTI/2K16/220 15.03.2017	Cost effective and novel treatment method development for the remediation and reuse of pesticide industrial wastewater	Dr. V. Himabindu Jawaharlal Nehru Technological University Hyderabad.	24 Months	21,07,600 (DST Share only)