

List of New projects supported during F.Y. 2017-18: 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/2K16/11 29.05.2017	Novel biological treatment process for water recycle-reuse and energy conservation in refinery industry	Dr. Kannan Pakshirajan, IIT Guwahati Guwahati.	36 Months	42,75,300
2.	DST/TM/WTI/2K16/30 28.04.2017	Thermal Treatment & Solidification of Arsenic & Iron Sludge Generated from Arsenic & Iron Removal Plants : Their Safe Disposal & Value Added Products	Dr. Biswajit Ruj CSIR-Central Mechanical Engineering Research Institute Durgapur.	36 months	26,93,200
3.	DST/TM/WTI/2K16/50 28.04.2017	Low cost technology for waste water treatment for domestic and industrial applications	Dr. Soumitra Satapathi IIT Roorkee.	36 months	35,00,000
4.	DST/TM/WTI/2K16/127 28.04.2017	Development of an Innovative Bioprocess for treatment and Recycling of Domestic and Industrial Wastewater.	Dr .K.MurugesanPeriyar University Salem Tamil Nadu.	36 Months	48,60,400
5.	DST/TM/WTI/2K16/258 28.04.2017	Removal of Heavy Metal from Wastewater: An Alternative Green Sonochemical Process Optimization and Pathway Studies	Dr. S.Anandan National Institute of Technology Trichy Tamil Nadu.	36 Months.	31,49,520
6.	DST/TM/WTI/2K16/276 01.05.2017	Evaluation and optimization of uranium removal from groundwater by reductive precipitation with the H ₂ -based membrane biofilm reactor	Dr. Ekramul Islam University of Kalyani West Bengal.	36 months	50,61,600
7.	DST/TM/WTI/2K16/122 28.04.2017	Surface Modified Magnetic Nanoparticles for Wastewater Treatment	Dr. Debanjan Guin University of Rajasthan Jaipur.	36 Months.	23,39,800
8.	DST/TM/WTI/2K16/305 01.05.2017	Extraction of Water from Air at Zero Energy Expenditure to Mitigate Water and Energy Crisis in India: A Socio-technical perspective to develop 'ZERO EXTRACT CORPORATES	Dr. S. Senthil Kumar National College Tiruchirappalli Tamil Nadu.	24 months	20,53,000(D ST share only)
9.	DST/TM/WTI/2K16/232 08.05.2017	Development of de-fluoridation kit for domestic drinking water	Dr. Sanjeev Gupta Grasim Industries Limited Bharuch Gujarat & Dr. Madhu Agarwal, MNIT, Jaipur.	36 Months	28,70,560

10.	DST/TM/WTI/2K16/263 08.05.2017 (C) 12.09.2017 (G)	Development of Intelligent Embedded E-Sense System For Online and Offline Detection of Heavy Metals (Arsenic,Iron etc) in Ground Water for quality Assessment.	Dr. Saikrishna Vaddadi, CSIR-Central Electronics Engineering Research Institute (CSIR-CEERI), Philani, Rajasthan.	36 Months	52,97,500
11.	DST/TM/WTI/2K16/241 08.05.2017	Development of house hold defluoridation unit for safe drinking water in fluoride endemic regions.	Dr. M G Sujana CSIR-Institute of Minerals and Materials Technology Bhubaneswar.	24 Months	75,67,027
12.	DST/TM/WTI/2K16/284 08.05.2017	Groundwater characterization along the coastal plain of Northern Malabar Kerala using isotope systematics	Dr. Girish Gopinath Centre for Water Resources Development and Management Calicut Kerala.	36 Months	31,88,907
13.	DST/TM/WTI/2K16/171 08.05.2017	Predictive approach for early detection of contamination zone in a intermittent and continuous water supply systems and its health impacts	Dr. Pawan K. Labhasetwar CSIR-National Environmental Engineering Research Institute (CSIR-NEERI) Nagpur.	36 months	77,56,442
14.	DST/TM/WTI/2K16/88 08.05.2017	Assessment of Hydrological and Physical status of Traditional Water Harvesting Structures using Geo-spatial technologies and measures for restoration and rejuvenation in Karnataka State	Dr. U.T Vijay Karnataka State Council for Science & Technology(KSCST) Indian Institute of Science Bengaluru Karnataka.	24 Months	48,29,500
15.	DST/TM/WTI/2K16/238 08.05.2017	Pilot Plant Demonstration of Nitrate Removal for Provision of Safe Drinking Water at Domestic Household and Community Level Using Chitosan Derivative	Dr. A. Sowmya SRM University Kattankulathur Kancheepuram District Tamil Nadu.	36 Months.	31,78,120
16.	DST/TM/WTI/2K16/252 09.05.2017	Structure Based Design of Aromatic Biosensors for Water Quality Monitoring	Dr. Ruchi Anand Indian Institute of Technology Mumbai Maharashtra	36 Months	45,00,000
17.	DST/TM/WTI/2K16/66 09.05.2017	Development of Smart Materials for Rapid and Sustainable Water Treatment	Dr. Sangeeta Tiwari Amity University Noida Uttar Pradesh.	36 Months	30,54,480
18.	DST/TM/WTI/2K16/188 09.05.2017	Water Quality Analysis and Mapping for Dimapur and Kohima District	Dr. Ditho Kathiry Nagaland Science & Technology Council Nagaland.	36 Months	91,45,760

19.	DST/TM/WTI/2K16/46 09.05.2017	Addressing water security of an urban settlement through multisource modeling	Mr. Tency Baetens Auroville Centre for Scientific Research(CSR) Pondicherry.	36 Months	87,76,000
20.	DST/TM/WTI/2K16/224 09.05.2017	Nanoskinned coir matrix for the removal of biological contaminants from water	Dr. K. Usha Mahatma Gandhi University Kottayam Kerala.	36 months	31,09,600
21.	DST/TM/WTI/2K16/266 09.05.2017	Modelling for Enhancing Water Quality in Uttarakhand using Geospatial Technology	Dr. D.P. Uniyal Uttarakhand State Council for Science and Technology (UCOST) Govt. of Uttarakhand Dehradun.	36 Months	43,16,800
22.	DST/TM/WTI/2K16/98 09.05.2017	Design and Fabrication of Prefabricated NFRP Module for Decentralized Waste Water Treatment Systems (DEWATS)	Dr. Syed Amanulla Centre for Biopolymer Science & Technology (CBPST) Kochi.	36 Months	42,65,305
23.	DST/TM/WTI/2K16/10 09.05.2017	Real-time Monitoring of Water Quality in the Lower Ganga River at Daily Time-scale using Remote Sensing Observations	Dr. BhabagrahiSahoo Indian Institute of Technology Kharagpur Kharagpur.	36 months	43,21,600
24.	DST/TM/WTI/2K16/43 09.05.2017	Use of Bacteriophages to ameliorate the hygiene conditions of secondary treated waste waters	Dr. Z. Bhathena Bhavan's College Mumbai.	36 Months	39,91,800
25.	DST/TM/WTI/2K16/91 11.05.2017	Arsenic immobilization by in-situ synthesis of iron-based adsorbent under reducing environment within porous media	Dr. Trishikhi Raychoudhury Indian Institute of Technology Patna (IITP) Bihar.	36 months	39,36,000
26.	DST/TM/WTI/2K16/237 08.05.2017 C 11.05.2017 G	A Novel Tio ₂ coated Aluminum Electrode (Tio/Al)for textile dyeing wastewater using real time controlled multichannel electrocoagulation process	Dr. P. Jegathambal and Dr. K Parameswari, Karunya University, Coimbatore, Tamil Nadu.	36 months	37,09,600
27.	DST/TM/WTI/2K16/193 11.05.2017	Optimization of disinfection process for secondary treated sewage by hybrid disinfection	Dr. A. B. Gupta Malaviya National Institute of Technology Jaipur Rajasthan.	24 Months	42,64,440
28.	DST/TM/WTI/2K16/20 A- (C) 11.05.2017 B (G) 22.06.2017	Removal of Pharmaceutical Derivatives present in waste water by advanced oxidation integrating with Microstructure and rotating packed bed of grapheme(G) Graphene oxide (GO)/GO-Metal Nanocomposites	Dr. Subrata Kumar Majumdar, Indian Institute of Technology, Guwahati, Assam and Dr. Papita Das,	36 Months	45,53,105

			Jadavpur University, Kolkata.		
29.	DST/TM/WTI/2K17/91/ Consultation	Evolving sustainable solutions for critical drinking water issues in India	Dr. N. Shantha Mohan, National Institute of Advanced Studies (NIAS), Bengaluru		58,00,00
30.	DST/TM/WTI/2K16/245 12.05.2017	Sustainable Grey Water (GW) treatment technology for community buildings.	Dr. Jitendra K. Pandey, University of Petroleum and Energy Studies (UPES), Dehradun.	36 Months	1,25,15,000
31.	DST/TM/WTI/2K16/154 16.05.2017	Biological Nutrient Removal from Wastewater in Modified DEWATS System for Reduced Land and Energy Footprints	Dr. B. Manoj Kumar, Sri Jayachamarajendra College of Engineering, Mysuru, Karnataka.	36 Months	49,40,000
32.	DST/TM/WTI/2K16/95 15.05.2017 C & G	Decentralization water treatment for removal of arsenic, fluoride and mercury from drinking water	Dr. Robin Kumar Dutta, Tezpur University, Tezpur, Assam.	36 Months	10,05,200
33.	DST/TM/WTI/2K16/224 09.05.2017	Nanoskinned coir matrix for the removal of biological contaminants from water	Dr. K. Usha, Mahatma Gandhi University Kottayam, Kerala	36 Months	31,09,600
34.	DST/TM/WTI/2K16/39 31.05.2017	Promoting community health by addressing incidence waterborne diseases in select village on Bihar	Dr. Lalit Mohan Sharma S M Sehgal Foundation Gurgaon Haryana.	36 months	1,23,58,000 (DST Share only)
35.	DST/TM/WTI/2K16/248 07.06.2017	Study of pure and ion embedded iron oxide nanostructure for sensing and removal of hazardous wastes from water	Dr. G.N. Dar University of Kashmir Hazratbal Srinagar Jammu & Kashmir.	36 months	31,04,420
36.	DST/TM/WTI/2K16/90 07.06.2017	Greywater treatment and reuse by combined sequencing batch reactor and solar photocatalytic reactor	Dr. Remya Neelancherry Indian Institute of Technology Bhubaneswar.	36 Months.	21,03,795
37.	DST/TM/WTI/2K16/265 12.06.2017	Reclamation of produced water generated from oil refineries using Nano composites	Dr. Monika Joshi and Dr. Subhasha Nigam Amity University Noida. Uttar Pradesh.	24 Months	22,88,000
38.	DST/TM/WTI/2K16/207 13.06.2017	Developing rapid sensitive high throughput user-friendly kit for routine detection of androgens and antiandrogens in water."	Dr. Gargi Bagchi Bhattacharjee Amity University Gurgaon Haryana.	36 Months	32,20,400

39.	DST/TM/WTI/2K16/264 21.06.2017 C & G	Development of pH based portable arsenic biosensor by exploiting arsenic oxidizing bacteria	Dr. Angana Sarkar and Dr. Sougata Kumar Kar, National Institute of Technology, Rourkela, Odisha	36 Months	44,73,200
40.	DST/TM/WTI/2K16/103 23.06.2017	Soft Computing framework based Integrated Multi Sensor Array for Water Quality Assessment: Targeting Fluoride as major Parameter	Dr. Karunesh Kumar Gupta Birla Institute of Technology & Science Pilani.	24 months	38,70,000
41.	DST/TM/WTI/2K16/306(a) 10.07.2017 C & G	Mitigation of water problems in Ausa town, Latur: Wastewater management, Gaothan lake rejuvenation, Potable water production through desalination of lake water and Training of residents in matters of sanitation and water conservation	Dr. Dilip Dhondu Sariode, Institute of chemical Technology, Mumbai	24 months	1,98,47,000
42.	DST/TM/WTI/2K16/78 18.07.2017	Development of sludge free, clean, green and cost effectively technology at pilot scale for treatment of textile & dyeing Industry effluent	Dr. Nupur Bahadur, The Energy and Resources Institute (TERI), IHC complex, Lodhi Road, New Delhi.	36 Months	39,80,000
43.	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
44.	DST/TM/WTI/2K16/222 24.07.2017	Development of a dual power portable RO plant	Dr. B. Subramanyam SASTRA University Thanjavur Tamilnadu.	24 Months	16,04,900
45.	DST/TM/WTI/2K16/164 08.08.2017	Desalination through waste heat recovery from solar PV operated VCR system	Dr. R. Velraj Anna University Chennai.	36 months	35,35,000
46.	DST/TM/INDO-UK/2K17/55 C & G 17.02.2018	Secular changes and Remediation of groundwater arsenic in the Ganga River Basin	Dr. Narayan C. Ghosh, National Institute of Hydrology, Roorkee.	36 months	2,91,46,000
47.	DST/TM/INDO-UK/2K17/30 C & G 17.02.2018	The development and implementation of sensors and treatment technologies for freshwater systems in India	Dr. Tapan K Dutta, Bose Institute, Kolkata.	36 Months	3,42,27,700
48.	DST/TM/INDO-UK/2K17/66 C & G 17.02.2018	Fate and Management of Emerging Contaminants	Dr. Ligy Philip, Indian Institute of Technology Madras, Chennai	36 Months	3,05,65,257

49.	DST/TM/INDO-UK/2K17/46 C & G 17.02.2018	AMR Pollutants: interactive studies and novel sensor technologies	Dr. T. Renganathan, Indian Institute of Technology Madras (IITM), Chennai.	36 Months	3,22,46,400
50.	DST/TM/INDO-UK/2K17/47 C & G 16.02.2018	Innovation low-cost optical sensor platform for water quality monitoring	Dr. Sundarajan Asokan, Indian Institute of Science, Bengaluru.	36 Months	1,09,72,000
51.	DST/TM/INDO-UK/2K17/64 C & G 17.02.2018	Rehabilitation of vibro infested waters of vembanAd Lake: pollution and solution (REVIVAL)	Dr. Anas Abdulaziz, CSIR-National Institute of Oceanography, Kochi.	36 Months	2,51,30,000
52.	DST/TM/INDO-UK/2K17/52 C & G 17.02.2018	Impact of Rainwater Harvesting on Groundwater Quality in India with specific Reference to Fluroide and Micropollutants	Dr. Anupma Sharma, National Institute of Hydrology, Roorkee.	36 Months	2,55,88,400
53.	DST/TM/INDO-UK/2K17/74 17.02.2018	PATHWAYS & evolution of pollutants: interaction between physical controlling effects, microbial community composition and pollutants biodegradation rates	Dr. Kapil Gupta, Indian Institute of Technology, Bombay. Email: kgupta@civil.iitb.ac.in	36 Months	46,10,400
54.	DST/TM/WTI/DD/2K17/39 (A) & (B) 15.03.2018	New Strategies for optimal operation of water supply schemes by use of Scheduling and Decentralization Infrastructure	Dr. Pradip Kalbar, IIT-Bombay Dr. Sridharakumar Narasimhan, IIT Madras.	36 Months	2,68,19,410
55.	DST/TM/WTI/DD/2K17/62 20.03.2018	Urban Flood Model for Bangalore	Prof. M.S Mohan Kumar, Institute of Science, Bangalore.	36 Months	5,72,41,500
56.	DST/TM/WTI/DD/2K17/06 28.03.2018	Off the grid sensor controlled irrigation using bank filtration technology	Ms. Kavita Patil The Energy and Resources Institute (TERI), Goa.	36 Months	2,02,87,828
57.	DST/TM/WTI/DD/2K17/04 28.03.2018	Agronomic Integration of Technologies for Productivity Management and Optimal Water Use in Wetlands of Cauvery River Delta	Dr. RM.Kathiresan Annamalai University, Chennai.	36 Months	2,09,87,376
58.	DST/TM/WTI/2K16/124 28.03.2018	Assessment on niche specific oxygenic photoautotrophic organisms for evaluation of Bhagirathi-Hooghly River basin water quality a biotic index based management proposal	Dr. Punyasloke Bhadury (IISERK).	36 Months	43,03,800