RESUME

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Educational Qualifications

Degree	Specialization	University
Ph.D	Environmental Engineering, Civil Engineering	IIT Kanpur, 1998
M.Tech	Environmental Engineering, Civil Engineering	IIT Kanpur, 1993
B.Tech	Civil Engineering	M.G.Univ, Kottayam, Kerala,1990

Professional Experience

Professor, Department of Civil Engineering, Indian Institute of Technology, Madras. (Since March 2009)

Associate Professor, Department of Civil Engineering, Indian Institute of Technology, Madras. (Jan 2004- March 2009)

Assistant Professor, Department of Civil engineering, Indian Institute of Technology, Madras (Jan 2001-Jan 2004)

Assistant Professor, Department of Civil Engineering, Indian Institute of Technology, Kharagpur (May 1999 to Dec. 2000)

Visiting Faculty, Department of Civil Engineering, Indian Institute of Technology, Kharagpur (May 1998 to May. 1999)

Senior Project Engineer, UNICEF sponsored project on Defluoridation of Water in Rural Areas Using Activated Alumina Technology, Department of Civil Engineering, IIT Kanpur (Aug 1997-May 1998)

Research Publications

In Refereed International Journals

- 1. Choudhary, V., Boukhvalov, D.W., Ligy Philip, (2022) "Role of inner-sphere complexation in phosphate removal by metal-organic frameworks: experimental and theoretical investigation" **Environmental Science: Water Research and Technology**, Volume 9, Issue-2, Page 572 585, DOI: 10.1039/d2ew00636g
- Areekath, L., Lodha, G., Kumar Sahana, S., Boby George, Ligy Philip and Mukhopadhyay, S.C. (2022) "Feasibility of a Planar Coil-Based Inductive-Capacitive Water Level Sensor with a Quality-Detection Feature: An Experimental Study" Sensors, Volume22, Issue-15, Article No:5508, DOI: 10.3390/s22155508
- Ravichandran M.K,and Ligy Philip (2022) "Fate of carbamazepine and its effect on physiological characteristics of wetland plant species in the hydroponic system" Science of the Total Environment, Volume 846, Article Number: 157337, DOI: 10.1016/j.scitotenv.2022.157337
- Ravichandran M.K,and Ligy Philip (2022) "Assessment of the contribution of various constructed wetland components for the removal of pharmaceutically active compounds" Journal of Environmental Chemical Engineering, Volume 10, Issue – 3, Article Number: 107835, DOI: 10.1016/j.jece.2022.107835
- Kumar, S., Tewari, C., Sahoo, N.G., Ligy Philip. (2022) "Mechanistic insights into carbo-catalyzed persulfate treatment for simultaneous degradation of cationic and anionic dye in multicomponent mixture using plastic waste–derived" Journal of Hazardous Materials, Volume 435 Article Number: 128956, DOI: 10.1016/j.jhazmat.2022.128956
- Vellingiri, K., Choudhary, V., Kumar, S, Ligy Philip. (2022) "Sorptive removal versus catalytic degradation of aqueous BTEX: a comprehensive review from the perspective of life-cycle assessment" Environmental Science: Water Research and Technology, Volume 8, Issue-7, Page No:1359-1290, DOI: 10.1039/d1ew00918d

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- 8. Choudhary, V and Ligy Philip (2022) "Sustainability assessment of acid-modified biochar as adsorbent for the removal of pharmaceuticals and personal care products from secondary treated wastewater" Journal of Environmental Chemical Engineering, Volume 10 Issue 3, DOI: 10.1016/j.jece.2022.107592
- Nippala N, Kamaraj Ramakrishnan and Ligy Philip (2022) "Enhanced degradation of complex organic compounds in wastewater using different novel continuous flow non – Thermal pulsed corona plasma discharge reactors" Environmental Research, Volume 203 Article number 111807, DOI: 10.1016/j.envres.2021.111807

- Ravichandran M.K, Yoganathan.S and Ligy Philip (2021) "Removal and risk assessment of pharmaceuticals and personal care products in a decentralized greywater treatment system serving an Indian rural community" Journal of Envionmental Chemical Engineering, Volume 9, Issue – 6, Article Number: 106832, DOI: 10.1016/j.jece.2021.106832
- Choudhary, V and Ligy Philip (2021) "Stable paper-based colorimetric sensor for selective detection of phosphate ion in aqueous phase" Microchemical Journal, Volume 171, Article number 106809, DOI: 10.1016/j.microc.2021.106809
- Jayakumar Renganathan, Insamam Ul Huq S, Kamaraj Ramakrishnan, Ravichandran M.K, and Ligy Philip (2021) "Spatio-temporal distribution of pharmaceutically active compounds in the River Cauvery and its tributaries, South India" Science of The Total Environment, Volume 800, Article Number: 149340, DOI: 10.1016/j.scitotenv.2021.149340
- Ravichandran M.K, and Ligy Philip (2021) "Insight into the uptake, fate and toxic effects of pharmaceutical compounds in two wetland plant species through hydroponics studies" Chemical Engineering Journal, Volume 426, Article Number: 131078, DOI: 10.1016/j.cej.2021.131078
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- 17. Jerin Jose, and Ligy Philip (2021) " Continuous flow pulsed power plasma reactor for the treatment of aqueous solution containing volatile organic compounds and real pharmaceutical wastewater" Journal of Environmental Management, Volume (286) Article No:112202, DOI: 10.1016/j.jenvman.2021.112202
- Manthiram Karthik.R, and Ligy Philip (2021) "Sorption of pharmaceutical compounds and nutrients by various porous low-cost adsorbents" Journal of Environmental Chemical Engineering, Volume 9(1) Article Number:104916, DOI: 10.1016/j.jece.2020.104916
- Jerin Jose, and Ligy Philip (2021) " Comparative study of degradation of toluene and methyl isobutyl ketone (MIBK) in aqueous solution by pulsed corona discharge plasma" Journal of Environmental Sciences (China), Volume (101) Page No:382-396, DOI: 10.1016/j.jes.2020.09.003

- 20. Jerin Jose, and Ligy Philip (2020) " Effect of various electrolytes and other wastewater constituents on the degradation of volatile organic compounds in aqueous solution by pulsed power plasma technology" Environmental Science: Water Research and Technology, Volume 6(8) Page No: 2209-2222, DOI: 10.1039/d0ew00388c
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- 23. Ambrose, H.W, Ligy Philip, Suraishkumar, G.K., Karthikaichamy, A., Sen, T.K.(2020) " Anaerobic co-digestion of activated sludge and fruit and vegetable waste: Evaluation of mixing ratio and impact of hybrid (microwave and hydrogen peroxide) sludge pretreatment on two-stage digester stability and biogas yield" Journal of Water Process Engineering, Volume 37 Article No:101498, DOI: 10.1016/j.jwpe.2020.101498

- 24. Krithika, D and Ligy Philip, (2020) "Characterization of segregated greywater from Indian households: part A—physico-chemical and microbial parameters" Environmental Monitoring and Assessment, Volume 192(7) Article No:428, DOI: 10.1007/s10661-020-08369-0
- 25. Krithika, D and Ligy Philip, (2020) "Characterization of segregated greywater from Indian households—part B: emerging contaminants" Environmental Monitoring and Assessment, Volume 192(7) Article No:432, DOI: 10.1007/s10661-020-08370-7
- 26. Ligy Philip, Kalaivani.K, Rosario.P, Krishna.V, Sri Shalini.S (2020) "Performance evaluation of anaerobic baffled biodigester for treatment of black water" Current Science, Volume 118(8) Pages 1265-1274, DOI: 10.18520/cs/v118/i8/1265-1274
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- 36. Ligy Philip,Bhallamudi.S.M (2019) Editorial Perspectives: Innovation needs for the water sector in India to achieve sustainable development goals. Environmental Science: Water Research and Technology. Vol 5(7), pp 1200-1201, DOI: 10.1039/c9ew90026h
- 37. Jakka Ravindran,S, Mahendranath, A,Srikrishnarka, P, AnilKumar,A, Islam,M.R, Mukherjee,S, Ligy Philip, Pradeep,T, (2019) "Geologically Inspired Monoliths for Sustainable Release of Essential Minerals into DrinkingWater" ACS Sustainable Chemistry and Engineering, Vol 7(3)Pages11735-11744, DOI:10.1021/acssuschemeng.9b01902
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- 114 **Ligy Philip** and M.R. Jaishankar "Wastewater Recycling for Indirect Potable Reuse: Technologies and Approaches for Risk Reduction", 13th IWA International Conference on Water Reclamation and Reuse, Chennai, INDIA, 15th – 19th January 2023.
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• Presented in National Conferences

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- **5.** Ligy Philip and Deshusses, M.A (2002). Sulfur Dioxide Treatment from Flue gases using a Biotrickling filter 20th National Convention of IPHE on Environmental Engineering, Held in GITAM Engineering College, Visakha patnam-530 045 during 22-24 August, 2002. (Invited Paper)

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- 24. Jose, J., Ligy Philip., Ramanujam, S., Sugai, T., Jiang, W.(2018) "Quantification of hydroxyl radical produced in aqueous phase by pulsed power plasma and electron beam irradiation and the applicability of electron beam for Indigo carmine degradation", Second National Power Engineering Research Scholars' Conference (NPERSC), IIT Madras, 24-25 February, 2018.
- 25. Narasamma.N and Ligy Philip, (2018) "Textile wastewater treatment using Hybrid Electrocoagulation-flotation/Pulsed power Plasma Technology". 1st Global Clean Up Congress: Part of Assessment, Remediation and Management of contaminated water (jointly organized by CRC CARE, TNAU) Coimbatore, India, October 21-22, 2018

- 26. Narasamma.N and Ligy Philip, (2019). "Pulsed Corona Discharge for the Treatment of Potentially Toxic dyes". Water and Waste Management (WWM) conference: Part of Industrial Wastewater Treatment (jointly organized by GHMC, AWW, NIRDP, Air India etc.) Hyderabad, India, February 19-20,2019
- 27. Jerin Jose, R.Sarathi, Ligy Philip (2019) "Pulsed corona discharge treatment for the degradation of chloroform and chlorobenzene" in National Environmental Conference 2019 organized by CESE, IIT Bombay, 31st Jan to 2nd Feb 2019
- 28. Jerin Jose, R.Sarathi, Ligy Philip (2019) "Comparison of treatment of toluene and chlorobenzene using pulsed power technology" in Indo-UK workshop on Wastewater treatment: Approaches, management and capacity building, in Punjab University, Chandigarh, July 3-5, 2019
- 29. Narasamma.N and Ligy Philip, (2019). Degradation of Emerging Contaminants using Batch and Semi continuous flow Pulsed power Plasma Technology. The National Symposium on Electrochemical Science and Technology NSEST-2019: Part of Electrochemistry organized by Indian Institute of Science (IISc) Bangalore, India. (19-20 July, 2019)
- 30. Vaishali Choudhar and Ligy Philip (2019). "The challenge was to develop an experience centre at Brapuhallah drain in Delhi." Wetlab Challenge Oragnised By Wet skills Netherlands, DBT And BIRAC From October 5 -17 2019 In Delhi
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- 32. Vaishali Choudhary and Ligy Philip (2020). Influence of residual pollutants on the electrocatalytic degradation of nitrate associated with treated secondary effluent wastewater; P.K. Sinha Centre of Bioenergy and Bio recovery, Indian Institute of Technology Kharagpur, 26-27th February 2020
- 33. Ligy Philip. Sustainable Water Management through Circular Economy Concept. Institute Lecture, IIT Hyderabad, 5th June, 2021 (Key Note Address)
- 34. Ligy Philip. Translational Research related to sustainable water management and circular economy, Guest Lecture for VIT Faculty, 15th September, 2021(Key Note Address)
- 35. Ligy Philip Delivered multiple lectures on "Greywater treatment systems planning" during the training programs on "Sustainable grey water management and reuse at community level" organised by CSE, New Delhi for Jal Jeevan Mission (Key Note Address)

 Ligy Philip delivered multiple lectures for the training program on Design of Sanitation Systems in Waste Management, Purwanchal Campus, Dharan, Nepal, during December, 4-8, 2021 (Key Note Address)

• National & International Patents/Copyrights

- 1. Washing Machine with Rinse Water Treatment and Reuse, Application No:3387/CHE/2015 (**Principal Inventor**) **Prof. Ligy Philip**, Prof. Bhaskar Ramamurthi, Prof. Boby George, Dr.C. Ramprasad, Dr.D. Krithika ,Mr. R. Nandagopal.
- Pulsed Power Technology based water treatment unit for the removal of pesticide, pharmaceutically active compounds and pathogens, Application No:201741039931(Principal Inventor) Prof. Ligy Philip, Prof. Sarathi R, Dr.Raj Kamal Singh, Patent Awarded, Patent No: 349146 dt: 13-10-2020
- Pulsed Power Technology based water treatment unit for the removal of pesticide, pharmaceutically active compounds and pathogens, Application No: PCT/IN2018/050727 (Principal Inventor) Prof. Ligy Philip, Prof. Sarathi R, Dr. Raj Kamal Singh, International Patent Awarded, Patent No: WO/2019/092747 dt: 16-5-2019
- A method and system for treatment of wastewater powered by solar energy No:201841039386 (Principal Inventor) Prof. Ligy Philip, Prof. Boby George, Dr. Krithika D, Mr. Gaurav Lodha, Mr. Subham Kumar Sahana, Patent Awarded, Patent No: 394888 dt: 18.4.2022
- A method of removing organic pollutants from water and wastewater, Application No: 794/CHE/2011 (Principal Inventor) Prof. Ligy Philip, Dr. Senthil Nathan J, Patent Awarded. Patent No: 303005 dt: 9.11.2018
- A planar Coil based water level and quality monitoring system, Application No:201941021491 (Co - Inventor) Prof. Boby George, Prof.Ligy Philip, Dr Subhas Mukhopadhyay,Mr. Gaurav Lodha,,Mr. Subham Kumar Sahana.
- A paper-based sensor for detection of eutrophying nutrients in water and wastewater system, Application No:202141012240 (Principal Inventor) Prof. Ligy Philip, Ms. Vaishali Choudhary, Dr. Kowsalya Vellengri, Patent Awarded, Patent No: 406442 dt: 13.9.2022
- Renewable energy based closed loop sanitation system, Application No: 201641018919 (Co Inventor) Prof. Srinivasa Reddy K, Prof. Ligy Philip, Dr. Krithika.D, Dr.H.Sharon. Patent Awarded, Patent No: 329105 dt: 8.1.2020

- 9. Sustainable treatment scheme for in-situ remediation of contaminated drains using engineered natural systems (**Principal Inventor**) **Prof. Ligy Philip**, Mr. Mohammed Iqbal Thayyil.
- 10. Process and system for recovery of phosphate with layered double hydroxide, Application No:202241066167 (**Principal Inventor**) **Prof. Ligy Philip** and Ms. Vaishali Choudhary, Provisional Filed on 18.11.2022

• Technology Transferred to Industries/Agencies and Copy Rights.

- Ligy Philip, Water analysis Kit for the technology knowhow, M/s: Weaver Technologies LLP, 13, Srisakthi Krishna Apartments, Manikandan Street, Aiyappa Nagar, Madipakkam, Chennai – 91, Agreement No: BM 242825 dt: 13th October 2017
- Ligy Philip, Technology Transfer Of Water Treatment System And Analysis Kits, M/s:Tanstia FNF Service Centre, B-22,Industrial Estate, Guindy, Chennai-32, Agreement No: BJ 548267 dt: 13th March 2017
- Ligy Philip, Knowhow Process to Bioremediate Hexavalent Chromium Contaminated Aquifers, M/s: Shriram Pistons, 23,KG Marg, New Delhi, Agreement No: BG 687671 dt:23rd January 2017
- 4. **Ligy Philip,** Knowhow Process to Bioremediate Hexavalent Chromium Contaminated Aquifers, M/s: Munjal Showa Private Limited, 9-11, Maruti Industrial Area, Gurugram, Haryana 122015, Agreement No: 5/2010 dt:3rd March 2010
- 5. Ligy Philip, Knowhow Process to Bioremediate Hexavalent Chromium Contaminated Aquifers, Anand Udyog, plot No:31, Sector -5(Pkt-1) Mujessar Railway Crossing, Faridabad, Haryana, Agreement No: AL172304 dt: 28th December 2012
- Ligy Philip, Consulting Services Agreement with M/s: Greenvironment Innovation & Marketing India (P) Ltd, S-3, Second Floor, Door No: 14, Janakpuri 1st Street, Off 100" Road, TN Police Housing Colony, Velachery, Chennai – 600042
- 7. Ligy Philip, Memorandum of Agreement between IIT Kanpur and IIT Madras, Centre for Ganga River Basin Management and Studies (cGanga) supported by National Mission for Clean Ganga, Ministry of Jal Shakti, New Delhi, INDIA
- 8. Manual for Sustainable greywater recycling unit for households, (**Copyright**) Application No: 11234/2019- CO/L, **Prof. Ligy Philip**, Dr. Krithika D, Mr. Sanjeev Chhetri.

 User manual on water quality analysis water quality test kit-15, (Copyright) Application No: 11762/2016-CO/L, Prof. Ligy Philip, Dr. R Elangovan, Prof. B S Murty, Registration No: L-72366/2018, dt: 13-01-2018

Book Chapters

- 1. Ligy Philip and Sanjeev Arjunagi: Novel Bioscrubbing Process for Complete Treatment of NOx from Flue Gases; Integrated Air Quality, CRC Press, Taylor and Francis Group, Ed: Nguyen Thi Kim Oanh
- 2. T. Swaminathan and Ligy Philip: Removal of VOCs from Contaminated Gas Streams by Biofiltration Integrated Air Quality, CRC Press, Taylor and Francis Group Ed: Nguyen Thi Kim Oanh
- 3. Nguyen Thi Kim Oanh, Prapat Pongkiatkul, Melliza Templonuevo Cruz, Ligy Phillip, Nghiem Trung Dung, Puji Lestari and Zhuang Guoshun Monitoring and Source Apportionment of Particulate Matter Pollution in Six Asian Cities; Integrated Air Quality, CRC Press, Taylor and Francis Group Ed: Nguyen Thi Kim Oanh.
- 4. **Ligy Philip** and Bhallamudi S. Murty, "Appropriate Interventions and Technologies for Providing Safe Drinking Water to Rural and Underprivileged communities", in Chapter-3 of the book "The Water-Food-Energy Nexus: Processes, Technologies, and Challenges (Eds. Iqbal Mujtaba; Nimir Elbashir; Rajagopalan Srinivasan), CodeMantra, 2017, pp.116-129
- 5. Co-Authored the following chapters of the book Wastewater treatment technology Ed. R.K. Trivedy, 1998 by Enviromedia
 - i. Removal of heavy metals from wastewaters
 - ii. Treatment of Phenolic wastewaters
 - iii. Biotechnology for wastewater treatment
- 6. Eldon, R.R., Shihabudheen, M.M., Ligy Philip., Swaminathan, T. (2004) "Substrate
 - a. Versatility Studies on the Aerobic Degradation of BTX Compounds." Soil and
 - b. Sediment Contamination. Taylor & Francis, Volume 13, Number 2 / March-April 2004.
- 7. Shihabudheen, M. Maliyekkal, T.Pradeep and **Ligy Philip.** (2009) "Simultaneous oxidation and removal of Arsenite from drinking water using Manganese oxide coated alumina". The 5th Edition of Southeast Asian Water Environment
- V. Arya Shihabudheen M. Maliyekkal , Ligy Philip (2019) "Water Pollution And Treatment Technologies - Indian Perspective" Book Name: Water Futures of India: Status of Science and Technology, Indian National Science Academy (INSA), Delhi.

- 9. Kowsalya Vellingiri, Vanish Kumar, **Ligy Philip** (2022) "MOF-based materials as soil amendments" Book Name: Advanced Materials for Sustainable Environmental Remediation, Terrestrial and Aquatic Environments.
- 10. Jaganathan Senthilnathan and Ligy Philip (2022) "Persistent Toxic Substances Released from Uncontrolled E-waste Recycling and Action for the Future" published in Springer Nature for book 'Conversion of Electronic Waste into Sustainable Products'.

Courses Taught

B.Tech

- 1. Engineering Drawing
- 2. Water and Wastewater Engineering
- 3. Design of Water and Wastewater Treatment Facilities
- 4. Industrial Wastewater Management
- 5. Environmental Engineering Lab
- 6. Environmental Engineering

M.Tech

- 1. Wastewater Management
- 2. Planning and Design of Water treatment Facilities
- 3. Planning and Design of Wastewater Treatment Facilities
- 4. Air Quality Management
- 5. Microbiology and Environmental Engineering Laboratory
- 6. Project Formulation and Appraisal
- 7. Environmental Chemistry and Microbiology
- 8. Water Quality and Treatment
- 9. Hazardous Waste Management
- 10. Environmental monitoring Laboratory

Thesis Guided/Guiding

a) **Ph.D**

- 1 Pranab Kumar Ghosh: Treatment of Pesticide bearing Wastewaters using Anaerobic Technology (**Completed**) on 23rd May **2003.** (Admin-guide- Prof. M. Bandhyopadhyay)
- 2 T. Shashidar: Development of a transport/biotransformation model for Chromium (VI) (Completed, 2006) (Co-guide: Dr. B.S. Murty)
- 3 Mathava Kumar: Bioremediation of Endosulfan contaminated soils (Completed, 2006. Best thesis in Green Sciences/Biological systems)

- 4 Shihabudheen M.M. Treatment of arsenic and fluoride contaminated water using novel adsorbents (**Completed**, 2008)
- 5 Rama Krishna K. Development of a biological system for the degradation of mixed pesticides (**Completed**, 2009)
- 6 R. Elangovan. Biotransformation and Biosorption of Cr (VI) from tannery wastewater. (Completed, 2009, Co-guide-T. Chandraraj, Dept. of Biotechnology)
- 7 **R. Ravi.** Treatment of VOCs contaminated air using rotating biological contactors (**Completed**, 2009, Co-guide: T. Swaminathan)
- 8 **Jay Sing J.** Remediation of Cr(VI) contaminated site in Ranipet, Tamilnadu using biological systems. (Sponsored candidate from Tamil Nadu Pollution Control Board, Co-guide: Dr. B.S. Murty, **Completed**, 2011)
- **J. Senthil Nathan.** Advanced oxidation/photocatalytic degradation of pesticides from contaminated waters (**Completed**, May, 2011)
- 10 **Balasubramanium**. Biofiltration of VOCs from Pharmaceutical Industries (Co-guide: Dr. B.S. Murty, **Completed** 2012)
- 11 **Aviraj Dutta** . Treatment of VOCs from paint industries using advanced oxidation and biofiltration. (**GE award, Completed** May 2014)
- 12 **Priya V. Nair**. Treatment of pharmaceutical wastewater using membrane bioreactors(**Completed** April, 2015)
- 13 Naresh Kumar. Complete treatment of Coke-oven wastewater using hybrid systems (Completed August 2014, Best thesis in Green Sciences/Biological systems)
- 14 **Akashdeep Oberoi**: Biodegradation of various Heterocyclic and Homocyclic aromatic hydrocarbons by Enriched Bacterial Consortium (**Completed**, January, 2017)
- 15 **Raj kamal Singh**: Water Treatment Using Pulsed Power Technique (**Completed** February.2017, **Best research Award**) Co-guide: Dr.R.Sarathi
- 16 V. Arya: Fate of emerging contaminants in different water and wastewater treatment systems, (Completed June, 2017) Co-guide: Dr. B.S. Murty
- 17 **C. Ramprasad**: Greywater treatment using horizontal, vertical and hybrid flow constructed wetland (**Completed**, July, 2017).
- 18 **Madhumathi.** M: Transport of Bacteria through confined and unconfined aquifer (Coguide: Dr. B.S. Murty) (**Completed**, December 2018)

- 19 Anupama Rajendran: Removal of pharmaceutically active compounds using heterogeneous photocatalysis under visible light (Co-guide: Dr. T.Pradeep) (Completed, December 2018)
- **Swathy.** Nanotechnology application for water treatment (Main Guide –Prof.T. Pradeep) (**Completed**, September 2019)
- **Krithika D:** Onsite household wastewater management for maximizing the reuse of treated water. (**Completed**, May 2020)
- **Anu Rachel Thomas**: Septage management through composting and understanding the fate of emerging contaminants during the treatment. (**Completed**, August 2020)
- **Jerin Jose**: Water and Wastewater Treatment by High Energy Electron Beam Irradiation and High Voltage Pulse Power Technology (**Completed**, March 2021)
- **Nippatala Narasamma.** Application of Pulse power technology and pulse power coagulation for Tannery and textile wastewater treatment (**Completed**, April 2021)
- **Sritama Muherjee**: Arsenic removal from Water through Nano Technology Application (Main Guide Prof.T. Pradeep) (**Completed**, August 2021)
- **Manthiram Karthik.** Removal of emerging contaminants using natural treatment systems (**Completed**, September 2022)

Ongoing

- **Vaishali Choudhary**, Remediation of Micropollutants and recovery of nutrient from Treated Secondary wastewater effluent
- 28 Vishnu Vardhan: Nitrate removal from water using hybrid technologies
- **Sumit Kumar:** Water and Wastewater Treatment via Advanced Oxidation Processes (AOPs) and Sensors
- **Mohammed Iqbal Thayyil:** Climate Change Impacts on Coastal Infrastructure and Adaptation Strategies
- **Pooja**: Heavy metals removal along with nutrients recovery from Industrial wastewater
- **Yogita Gupta:** Industrial wastewater treatment
- **Bhesh Kumar Karki**: Sustainable Wastewater Management using Engineered Natural Systems

- 34 **Athira M K:** Treatment of Paraben and Perfluorinated Compounds Contaminated Water using Pulsed Power Plasma Technology
- 35 **Maanashi Tripathi:** Control and removal of harmful algal bloom and algal toxin-Disinfection by products
- 36 **Subham Meher:** Sustainable Sludge Management and Resource Recovery
- 37 Akash Saha: Integrated management of domestic organic waste and wastewater to achieve circular economy
- **b**) **M.S**
- 1. **S.Somasundaram**. Simultaneous treatment of Tannery and Electroplating industrial wastewaters (Co-guide: Prof. B.S. Murty, Completed, 2010)

Ongoing

- 2. **Ankit Kumar**: Wastewater treatment and resource recovery
- 3. **Ritik Anand:** Catalytic Pulse Power Technology for removal of Toxic Organic Contaminants

c) M.Tech

- 1 R. N. Prabhu (**1999**) Development of a Portable Filter for the Removal of Arsenic from Aquatic Environment
- 2 N.D.V.S.S.Murali Krishna (2000) Development and Performance Evaluation of a Biofilter for NOx Removal (Best thesis award)
- 3 Prashant Mukherjee (2001) Development of a low-cost technology for as removal for Rural areas
- 4 Sanjay Lalan (2001) Performance evaluation of a Biofilter for Sulphur dioxide removal
- 5 R. Rama Krishna (2003) Studies on the ex situ bioremediation of chromium contaminated soils (ISTE BEST THESIS AWARD)
- 6 P. Srikiran Babu (2003). Bioremediation of atrazine contaminated soils
- 7 Shihabudheen M.M (2003) Performance evaluation of a bootlicking filter for treating BTXs

- 8 J. Dayalan (2003). Level of Pollution of Chennai Coastal Water due to Wastewater Disposal (Co-guide Dr. S. Neelamani,)
- 9 J. Jeyasingh (2003). Studies on the in-situ remediation of Chromium contaminated soils
- 10 V. Rohit Kumar (2003). Bioremediation of phenol; contaminated soils
- 11 Sanjay Bharman (2005). Chemical/Biological system for the treatment of NOx from Flue gases
- 12 Madhubabu (2005) Treatment of Carbofuran contaminated wastewater in anaerobic system
- 13 Giri (2005) Comparison of conventional and modified UASB reactors for the domestic wastewater treatment.
- 14 Sanjeev Arjunagi (2007). Development of a Novel biological system for the treatment of NOx from Flue gases
- 15 Shankar Lal (**2007**). Development and Performance Evaluation Of A Biological System For The Treatment Of Phenol, Ammonia and Cyanide Containing Wastewater
- 16 N. Sundareshan (2007). Development of a Biological System for the Treatment of Domestic Wastewater in Cold Climates
- 17 Lt.Col. Dinesh Kumar (2008). Development of a Household Unit for the Treatment of Contaminated Groundwater in Rural Areas of India
- 18 Koushal Madhav (2009). Treatment of Coke Oven Wastewater using Biological Systems
- 19 Lt. Maj. Raja Shekar (2009) Treatment of Domestic Wastewater Rich in Colloidal materials using Biological Systems in Cold Climates
- 20 Ms. Divya Chandran (2011). Experimental and modeling studies on export of contaminants from catchments (B.S. Murty, Co-advisor)
- 21 V. Arya (2012). Development of an environmentally friendly water treatment system.
- 22 Surya (2012). Estimation of METHANE Emissions from Rivers Receiving Partially Treated/Untreated Wastewaters
- 23 Krithika (2013). Biodegradation of waste generated from water-based Paint industries using microbial consortium.

- 24 Sumeet Makkad (2014). Onsite wastewater treatment system for recycling in urban residential areas
- 25 Aravind. (2015). River water quality monitoring and providing management strategies
- 26 Sanjeev Chhetri (2019). Sustainable Treatment and Reuse of low strength household Greywater
- 27 P.Kavitha (2019). Fate. Occurrence, and Removal of Pharmaceuticals in River Sediment by Biodegradation
- 28 N. Somasundaram (2019). Effect and Removal of Heavy Metals during Industrial and sewage sludge composting
- 29 Nikhil PP (**2021**). Life Cycle Assessment of Advanced oxidation process for endocrine disrupting compounds for STPs in India.
- 30 Sandeep Appana (2022). Study on most efficient and cost-effective Fecal Sludge Management Technology

Ongoing

- 31 Baluguru Nithin Reddy: Pesticide removal
- 32 Kaustav Ghosal : Towards Carbon-neutral construction in rural areas using treated or partially treated wastewater

Sl.	Duration of	Title of the Project	Funded	Value of the	Principal	Co - Principal
no	the Project		by	Project	Investigator	Investigator
1	30-03-2001	Bioremediation Of Endosulfan	Department of	Rs:8,28,906/-		
	То	Contaminated Soils Using	Science			
	30-04-2004	Bacterial Isolates From	&Technology		V	
		Contaminated Soils				
2	21-03-2003	Development Of A Low Cost	Department of	Rs:6,10,632/-	√	
	То	Technology For Arsenic	Science		V	
	20-03-2006	Removal In Rural Areas Of	&Technology			
		West Bengal				
3	10-03-2004	Chromium Removal From	Department Of	Rs:12,34,000/-	√	
	То	Tannery Effluent Through	Biotechnology		V	
	29-03-2007	Microbial Bioremediation				
4	07-07-2004	Monitoring Of Toxic Pollutants	Asian Institute of	Rs:54,94,033/-	√	
	То	And Development Of Flue Gas	Technology		V	
	30-06-2008	Control Technology For Clean				
		Air In Chennai				
5	01-09-2005	Development Of A Humane	IIT Madras	Rs:1,50,000/-		~
	То	Sewer Cleaning System				V
	31-08-2007					
6	18-09-2008	Monitoring Water Quality In	United Nations	Rs: 5,62,686/-	√	
	То	Rural Habitats Of Krishnagiri	Children's Fund		•	
	17-01-2009					
7	01-10-2007	Development Of Economical	IIT Madras	Rs: 8,50,000/-	√	
	То	And Easy To Use Water Quality	Alumini		V	
	30-09-2009	Test Kits				
8	19-12-2006	Development Of Models For	Ministry of	Rs: 22,65,865/-		
	То	The Cleanup Of Cr(Vi)	Water Resources		▼	
	18-12-2009	Contaminated Aquifers Using				
		Bio-Remediation				

Sl.	Duration of	Title of the Project	Funded	Value of the	Principal	Co - Principal
no	the Project		by	Project	Investigator	Investigator
9	05-05-2009 To 04-12-2009	Piloting community-based water quality monitoring system	United Nations Children's Fund	Rs:9,47,870/-	~	
10	14-09-2009 To 15-04-2010	Assessment of drinking water safety in Krishnagiri District	United Nations Children's Fund	Rs: 7,50,426/-	✓	
11	12-11-2009 To 31-12-2012	Development of models for managing water quality in drinking	Department Of Science & Technology	Rs: 37,69,000/-		~
12	15-04-2010 To 27-10-2011	Sustainable water waste management on the chennai basin	Indo-German Center for Sustainability	Rs: 22,50,000 /-	✓	
13	28-04-2011 To 27-10- 2011	Bio hydro metallurgy for metal recovery and stabilization of mining waste	NORUT Teknologi AS Norway	Rs: 5,22,179/-	✓	
14	16-03-2011 To 31-03-2012	Solution of Textile Pollution	Department Of Environment	Rs: 9,60,000/-	✓	
15	03-06-2009 To 02-06-2012	Alternative water systems project in mylai balaji Nagar Chennai	International Development Research Centre Canada	Rs: 76,17,833/-	✓	
16	01-05-2009 To 31-12-2014	Decentralized waste water management, benchmarking of public utilities and PPP	Ministry Of Urban Development	Rs: 2,00,27,000/-	✓	
17	06-07-2010 To 31-03-2015	Ganga River Basin Management plan(GRBMP) - A Pan IIT project	Ganga River Basin Management	Rs: 65,94,075/-	✓	

Sl.	Duration of	Title of the Project	Funded	Value of the	Principal	Co - Principal
no	the Project		by	Project	Investigator	Investigator
18	06-01-2012 To 05-01-2017	Water purification using nanotechnology	Department Of Science & Technology	Rs: 10,81,00,000/-		~
19	23-01-2013 To 22-07-2015	Feasibility study of pulse power technique: Alternative technology for water treatment	Department Of Science & Technology	Rs: 25,49,000/-		~
20	16-01-2013 To 30-11-2016	Supporting consolidation replication and up-scaling of sustainable wastewater treatment and reuse	Department Of Science & Technology	Rs:57,69,000/-	✓	
21	28-03-2013 To 30-09-2016	Building an International research network on sustainability to enhance strategic knowledge	Department Of Science & Technology	Rs: 5,33,74,400/-		 ✓
22	25-07-2013 To 24-07-2016	Sustainable decentralized waste management in urban residential areas	Department Of Science & Technology	Rs: 44,38,800/-	✓	
23	19-11-2013 To 30-09-2016	Fast sampling analyses for anthropogenic micro pollutants in wet environmental compartments	Indo-German Center for Sustainability	Rs: 24,28,000/-		~
24	19-11-2013 To 30-09-2016	Development of sustainable waste management of septage by composting and minimizing GHG emissions	Indo-German Center for Sustainability	Rs: 24,97,000/-	✓	
25	28-08-2014 To 30-09-2016	Design and development of solar thermal energy system for domestic sewage (Black water) treatment	Indo-German Center for Sustainability	Rs: 42,27,060/-		~

Sl.	Duration of	Title of the Project	Funded	Value of the	Principal	Co - Principal
no	the Project		by	Project	Investigator	Investigator
26	01-01-2014	CoE of MoUD (Phase-II)	Ministry Of	Rs:2,72,00,000/-		
	То	Performance Evaluation Study	Urban		V	
	31-03-2018	of Sewerage Treatment Plants	Development			
		Sanctioned				
27	24-02-2015	Climate Change Adaptation	Indo-German	Rs: 80,04,000/-		 ✓
	То	And Resilience In Peri-Urban	Center for			
	31.3.2017	Chennai In The Study Area Of	Sustainability			
		Sriperumbudur				
28	17-06-2015	Industry Waste Water	Department Of	Rs: 53,12,500/-	\checkmark	
	То	Treatment Adopting Pulsed	Science &		V	
	16-06-2017	Power Technique	Technology			
29	02-02-2017	Sustainable Solar Powered	Impacting	Rs:1,32,00,000/-		
	То	Wastewater Treatment Systems	Research		V	
	01-02-2019	to Improve hygiene and	Innovation and			
		Sanitation in Schools by	Technology			
		Adopting Water Recycling and	(IMPRINT)			
		Online Quality Monitoring				
30	17-02-2018	Fate and management of	Department Of	Rs: 3,05,65,000/-	~	
	То	Emerging Contaminants	Science &		V	
	16-02-2022	(FAME)	Technology			
31	22-02-2019	C- TaP "Creation of	Ministry of	Rs: 1,23,48,600/-		
	То	Management Structure for	Environment, Forest			V
	31-07-2022	Hazardous Substances"	and Climate Change(GoI)			
32	23-03-2018	Adaptation of waste	Department Of	Rs: 75,43,800/-		
	То	management infrastructure in	Science &	, 10,0000	\checkmark	
	22-03-2023	coastal areas to climate change	Technology			
33	15-03-2017	Thematic Projects in Frontiers	Department Of	Rs: 5,41,01,600/-		
	То	of Nano S&T (TPF-Nano) on	Science &			V
	31-8-2020	Water Purification using	Technology			
		Nanotechnology				

34	23-10-2018	Centre for Sustainable Treatment,	Department Of	Rs: 4,46,56,222/-	~	
	То	Reuse and Management for	Science &		V	
	22-10-2023	Efficient, Affordable and	Technology			
		Synergistic solutions for Water				
35	23-10-2018	Wastewater Treatment	Department Of	Rs:1,79,14,810/-	\checkmark	
	То	Technologies and sensors	Science &		•	
	22-10-2023	(WATER-IC)	Technology			
36	11-3.2020	Identifying Best Available	Department Of	Rs:1,64,53,320/-		
	То	Technologies for Decentralized	Science &		V	
	10-3-2024	Wastewater Treatment and	Technology			
		Resource Recovery for India				
		(SARASWATI 2.0)				
37	04-02-2021	Water and Sustainability	Ministry of	Rs:4,64,00,000/-	~	
	То	(IOE-COE)	Human Resource		V	
	31-12-2026		and			
			Development			
38	9-3-2020	Modular Lightweight	Indo German	Rs:84,77,000/-		
	То	Wastewater Treatment Units	Science &			V
	8-3-2023	made with TRC for Rural and	Technology			
		Periurban Dwellings (Clean	Centre			
		Water)				
39	4-1-2021	International Centre for Clean	Science and	Rs:20,00,000/-		v
	То	Water (ICCW)	Engineering			
	3-1-2026		Research Board			
40	10.1.2023	Water for Life: An IIT Madras	Science and	Rs:2,50,000/-	~	
	То	Conference 2022	Engineering		V	
	9.5.2023		Research Board			
41	1-2-2023	Water and Sustainability	Ministry of	Rs:5,00,00,000/-	~	
	То	(IOE-COE) – Phase II	Education		V	
	31.1.2026					

Research Based Consultancy Projects

Sl. no	Duration of the Project	Title of the Project	Funded By	Value of the Project	Principal Investigator	Co - Principal Investigator
1	24-05-2010 To 01-12-2010	Scaling Up Of Community Based Water Quality in Krishnagiri District	United Nations Children's Fund	Rs: 21,25,450/-	~	
2	14-12-2009 To 01-01-2011	Terrestrial Environmental Monitoring In L&T Shipbuilding Kattupalli	L&T Shipbuilding	Rs: 36,89,912/-	~	
3	27-07-2009 To 26-07-2011	Demonstration Project For The Bioremediatyion Of Chromium Contaminated Soil And Aquifer In Ranipet	Central Pollution Control Board	Rs: 14,41,200/-	~	
4	01-01-2012 To 31-12-2012	Evaluation Of Water Filter Performance	Blue Gold Engin eering., USA	Rs: 3,94,098/-	~	
5	01-12-2010 To 31-03-2013	Terrestrial Environmental Monitoring In L&T Shipbuilding Kattupalli	L&T Shipbuilding	Rs: 68,51,280/-	~	
6	30-01-2013 To 30-11-2013	Feasibility Study For Design, Investment And Management Models of Toilet	Institute for Financial Management and Research	Rs: 5,72,637/-	~	
7	01-03-2014 To 28-02-2015	Study on pollution River Stretches	Tamil Nadu Pollution Control Board	Rs: 2,00,000/-	 ✓ 	
8	31-03-2015 To 30-03-2018	Sustainable waste management and resource recovery for clean and healthy villages [Vichoor]	M/s.India Additives Ltd	Rs: 2,00,00,000/-	~	

Sl.	Duration of	Title of the Project	Funded	Value of the	Principal	Co - Principal
no	the Project		by	Project	Investigator	Investigator
9	21-09-2015	Evaluation of DRDO wastewater	Bill and Melinda	Rs: 97,86,500/-		
	То	treatment system	Gates Foundation		V	
	30-09-2016					
10	01-10-2015	Developing improved Design of	ARGHYAM	Rs: 52,30,560/-		\checkmark
	То	Septic Tanks to Prevent				V
	30-09-2017	Groundwater Contamination in				
		the Context of Namakkal				
11	14-12-2015	Assessment of Migration of	M/s:Galaxy Trust	Rs:10,30,500/-	~	
	То	Plasticizers in Consumer Products	-		V	
	13-06-2016	Such as Hair Oils, Soft Drinks,				
		etc				
12	08-02-2016	Evaluation of small scale	Bill and Melinda	Rs: 1,28,85,800/-	~	
	То	decentralized sanitation systems	Gates Foundation		V	
	07-07-2017					
13	27-01-2017	Know How Process to	M/s: Shriram		~	
	То	Bioremediate Hexavalent	pistons & Rings	Rs:34,50,000/-	V	
	30-06-2017	Chromium	Ltd.			
14	15-09-2016	Evaluation of DRDO wastewater	Bill and Melinda	Rs:1,38,74,520/-		
	То	treatment system	Gates Foundation		V	
	31-12-2017					
15	01-02-2017	Identification of reliable source	AM Corporate	Rs:13,76,500/-	~	
	То	for drinking water supply and	Social		V	
	31-01-2018	designing of conveyance systems	Responsibility			
			Foundation			
16	19-10-2015	Sustainable waste management	M/s.Technip India	Rs: 1,14,00,000/-		
	То	and resource recovery for clean	Limited		V	
	30-9-2019	and healthy villages [SP Kovil]				
17	25-06-2019	Water filtration performance of	M/s: Saint -			
	То	Saint-Gobain Ceramic filters	Gobain Research	Rs:6,00,000/-		
	30-06-2020		India Limited		V	

18	01-04-2018 To 30-06-2021	Sustainable waste management and resource recovery for clean and healthy villages Vichoor Phase II	M/s.India Additives Ltd	Rs: 2,25,00,000/-	~	
19	21-06-2018 To 31-12-2021	Implementing activities of providing safe drinking water, sanitation @ Nagapatnam	Chennai Petroleum Corporation Ltd.,	Rs:13,75,31,883	~	
20	15-11-2017 To 31-1-2019	Procurement & Training of Softwares for TWAD Board Engineers	TWAD Board	Rs: 1,48,67,822/-		✓
21	16-9-2019 To 30-4-2021	Study the source of ground water contamination in the wells surrounding the tailing pond of Uranium Corporation. Kadapa	Andra Pradesh Pollution Control board	Rs:61,40,000/-		~
22	1-10-2019 To 30-9-2022	Consulting Services Agreement with M/s: Greenvironment Innovation & Marketing India (P) Ltd	Greenvironment Innovation and Marketing India Pvt Ltd	Rs:21,24,000/-	~	
23	21-4-2020 To 16-8-2022	Sustainability of India - EFT platform	Duke University, USA	Rs: 50,58,020 /-	~	
24	04-8-2020 To 31-3-2023	Water filtration performance of Saint-Gobain Ceramic filters	M/s: Saint - Gobain Research India Limited	Rs: 63,50,386 /-	~	
25	1-7-2020 To 30-6-2023	CCRBF - Expansion of the Indo- German Competence Centre for Riverbank Filtration	University of Applied Sciences Dresden	Rs:7,06,860/-	~	
26	1-8-2021 To 31-7-2022	NGWA Acceleration Scholarship – Young Academics	Technical University of Denmark	Rs: 87,010/-	~	
27	1-5-2021 To 30-4-2023	Investigation of Water Treatment Technology	Toray Industries, Inc, Japan	Rs:26,73,107/-	~	

28	22-7-2022 To 31-1-2023	To conduct Pilot study by IIT Chennai to identify appropriate treatment systems to treat water from Kolavai lake and to provide constant quality and quantity of water	Mahindra World City Developers Limited	Rs:3,50,000/-	v	
29	11.10.2022 To 31.1.2023	Sampling and Analyses water and Wastewater samples from TTUF Plant and Lakes	Madras Metropolitan Water Supply and Sewerge Board	Rs:3,10,200/-	~	
30	28.10.2022 To 30.4.2023	To test the TDS measurement device under different environmental conditions.	Schneider Electric Systems India Private Limited	Rs:7,26,000/-	✓	
31	8-2-2023 To 31-3-2024	Piloting for Anaerobic attached growth process with IIT Madras	Paques Environmental Technology India Private Limited	Rs:18,74,500/-	~	
32	12-1-2022 To 11-1-2027	Aqua MAP-Water Management and Policy Centre at IIT Madras	IITM Alumni	Rs:2,00,00,000/-	✓	
33	20-9-2022 To 31-3-2023	Water and Wastewater management for a clean and healthy village transformation project on Sidkaghatta, Chikkaballapur District in Karnataka	IBM India Private Limited	Rs: 70,50,000/-	•	
34	22-3-2022 To 22-3-2025	Improvement in water,wastewater and solid waste management for a clean and healthy village Vallipuram Village	IITM Alumni	Rs:5,00,000/-	~	

Sl.n o	Duration of the Project	Title of the Project	Funded by	Principal Investigator	Co - Principal Investigator
1	01-10-2003 To 30-05-2004	Environment Management Plan for Chennai Airport	M/s Airports Authority of India, Chennai	•	
2	07-10-2005 To 31-03-2006	Audit of Spic Fertilizer Plants at Tuticorin	M/s: Southern Petrochemical Industries Corporation Ltd	~	
3	17-10-2005 To 31-03-2006	Studies on The Feasibility of Calcium Chloride Recovery from Manali Petrochemical Effluent	M/s: Manali Petrochemicals Ltd	~	
4	26-12-2005 To 30-06-2006	EIA Study and Disposal of Caco3 Sludge	M/s: Tuticorin Alkali Chemicals and Fertilizers Ltd	~	
5	16-06-2006 To 30-09-2006	Tirupur Textile Industries- Common Effluent Treatment Plants	M/s: Andipalayam Common Effluent Treatment Plant (P) Ltd	~	
6	14-06-2006 To 30-09-2006	Tirupur Textile Industries- Common Effluent Treatment Plants	M/s: Mannarai Common Effluent Treatment Plant (P) Ltd	~	
7	16-06-2006 To 30-09-2006	Tirupur Textile Industries- Common Effluent Treatment Plants	M/s: Karaipudur Common Effluent Treatment Plant (P) Ltd	~	

Industrial Consultancy Projects

8	12-06-2006	Tirupur Textile Industries-	M/s: Veerapandi	
	То	Common Effluent Treatment	Common Effluent	V
	30-09-2006	Plants	Treatment Plant	
			(P) Ltd	
9	09-03-2007	Technical Appraisal Of Effluent	M/s: Aima Textile	
	То	Treatment Process,	Processing Centre,	V
	31-08-2007		Cuddalore,	
10	25-06-2007	Technical Appraisal Of Effluent	M/s: Veerapandi	
	То	Treatment Process,	Common Effluent	
	30-09-2007		Treatment Plant	
			(P) Ltd	
11	16-07-2007	Technical Appraisal Of Effluent	M/s:Villarasampatt	
	То	Treatment Process	i Cetp, Erode	•
	31-10-2007			
12	03-03-2008	Tirupur Textile Industries	Ms: Creative	
	То	Common Effluents Treatment	Environmental	
	30-04-2008	Plants-Zero Discharge Projects	Consultants	
13	21-07-2008	Conducting Of Ambient Air	Southern Railway	
	То	Quality Survey At Ennore		
	20-09-2008			
14	05-05-2008	Consultancy Work For	M/s: Consolidated	
	То	Evaluation Of Proposed STP	Construction	
	04-11-2008	System	Consortium Ltd	
15	15-10-2007	Design And Performance	M/s: Hi-Tech	
	То	Evaluation Of A Pilot Scale Flue	Carbon	•
	31-12-2008	Gas Desulphurization System,		
16	24-10-2007	Ground Water Quality	Central Pollution	
	То	Monitoring And Modeling For	Control Board	•
	31-12-2008	Preparation Of Action Plan For		
		Remedial Measures		
17	02-07-2008	Treatability Study Of Effluent	M/s: Tata	
	То	From Tata Refractors For Color	Refractories Ltd	•
	31-12-2008	Removal		

18	01-12-2008	Soil Contamination Analysis	M/s:Toshiba	
	То		Corporation Power	V
	31-03-2009		Systems Company	
			Japan	
19	28-10-2008	Carrying Out Environment	M/s: Piramal	
	То	Audit For Nicholas Piramal	Healthcare Ltd	
	30-06-2009	India Ltd		
20	23-02-2009	To Assess The Migration Of	M/s: Lead-Capacs	
	То	Organic Components Form	And Sodis	
	22-08-2009	Different Polyethylene	Chennai	
		Terephthalate Bottles		
21	03-07-2009	Validation Of The Design For	M/s: Hebbal	
	То	The Design Adequacy	Bangalore	▼
	30-09-2009	Validation On The Resources		
		Requirement And Waste		
22	23-08-2009	Preparation of Report on Short	M/s: Shasun	
	То	Term Measures to Be Taken To	Chemical and	V
	23-10-2009	Reduce Pollution,	Drugs Ltd	
23	12-10-2009	Training On Water Quality	M/s: Kingsley	
	То	Analyses And Water Treatment	Community Centre	
	31-10-2009	in Krishnagiri		
24	22-09-2009	Analysis Of Soil Samples	M/s:Toshiba	
	То		Corporation Power	
	31-12-2009		Systems Company	
			Japan	
25	04-08-2009	Soil Contamination Analysis	M/s:Toshiba	
	То		Corporation Power	
	03-02-2010		Systems Company	
			Japan	
26	18-12-2009	Wetting Of The Design Of	M/s: Consolidated	
	То	Proposed 2 MLD ETP For	Construction	•
	28-02-2010	Chennai Airport,	Consortium Ltd	

27	2-01-2010	Analysis Of Soil Samples	M/s:Toshiba	
	То	J	Corporation Power	V
	31-03-2010		Systems Company	
			Japan	
28	13-07-2009	Design And Performance	M/s: Hi-Tech	
	То	Evaluation Of A Pilot Scale Flue	Carbon	V
	12-04-2010	Gas Desulphurization Systems		
29	04-09-2009	Analysis Of Soil Samples	M/s:Toshiba	
	То		Corporation Power	
	31-05-2010		Systems Company	
			Japan	
30	01-04-2010	Technical Assessment of DPR,	M/s: Andipalayam	
	То		Common Effluent	
	31-05-2010		Treatment Plant	
			Pvt. Ltd	
31	11-05-2010	Onsite Treatment Plant of	M/s: Tamilnadu	
	То	Sewage without Polluting the	Small Industries	
	31-08-2010	Ground Water-Feasibility Study,	Development	
			Corpn, Ltd.	
32	15-06-2010	Process Technical Feasibility	M/s: VK	
	То	Report,	Chemicals,	
	14-09-2010		Tamilnadu	
33	15-06-2010	Analysis Of Soil Samples	M/s:Toshiba	
	То		Corporation Power	•
	14-09-2010		Systems Company	
			Japan	
34	01-03-2011	Technical Feasibility Report For	Municipal	
	То	The Construction Of 40 MLD	Corporation	V
	31-03-2011	STP,	Coimbatore	
35	10-01-2011	Coovam River Water Sample	M/s: Soma	
	То	Testing,	Enterprises	▼
	15-04-2011		Limited., Chennai	

36	01-11-2010	Analysis Of Soil Samples,	M/s:Toshiba	
	То		Corporation Power	V
	30-04-2011		Systems Company	
			Japan	
37	15-06-2010	Design And Performance	M/s: Hi - Tech	
	То	Evaluation Of A Pilot Scale Flue	Carbon	•
	14-06-2011	Gas Desulphuization System		
38	29-06-2011	Vetting Of Scheme For Sewage	M/s: Acme Tele	
	То	Treatment Plants And Sewage	Power Limited	•
	28-12-2011	Line,		
39	01-09-2011	Vetting Of Design Of Sewage	Tamilnadu Small	
	То	Treatment Plant,	Industries	•
	31-01-2012		Development	
			Corporation	
			Limited	
40	03-10-2011	Vetting Of Design Of	M/s: Potential	
	То	Wastewater Treatment Plant For	Semac Consultants	•
	30-04-2012	Brewery Industry,	Pvt Ltd	
41	01-11-2011	Analysis of Carbon Fractions In	Central Institute	
	То	Soil	Of Brackish water	
	30-04-2012		Aquaculture	
42	01-01-2012	Vetting Of Water Treatment	M/s: Megha	
	То	Plant Design	Engineering &	•
	01-06-2012		Infrastructures Ltd	
43	10-02-2012	Technical Assessment of DPR	M/s: Andipalayam	
	То	For Andipalayam,	Common Effluent	
	09-08-2012		Plant Pvt Ltd	
			Tirupur	
44	10-02-2012	Technical Assessment of DPR	M/s: Veerapandi	
	То	For Veerapandi,	Common Effluent	•
	09-08-2012		Treatment Plant	
			Limited Tirupur	

45	01-03-2012	Technical Assessment Of DPR	M/s: Karaipudur		
	То	For Karipvdur CETP,	Common Effluent	V	
	31-08-2012	1	Treatment Plant		
			Limited Tirupur		
46	01-03-2012	Zero Discharge Of Liquid -	M/s: Mannarai		
	То	Technical Assessment Report Of	Common Effluent	V	
	31-08-2012	DPR	Treatment Plant		
			(P) Ltd		
47	01-05-2012	Evaluation of trail run of CETPS	M/s: Veerapandi		
	То	ZLD system,	Common Effluent	V	
	31-10-2012		Treatment Plant		
			Limited Tirupur		
48	01-07-2013	Testing Aquatain Waterguard,	M/s: Secuforce		
	То		Chennai	V	
	31-10-2013				
49	01-05-2013	Audit of TNWML Operated in	M/s: Industrial		
	То	Gummidipoondi,	Waste	V	
	31-10-2013		Management		
			Association		
50	05-12-2013	Evaluation of Production	M/s: Mannarai		
	То	Capacity in CETP,	Common Effluent		
	04-06-2014		Treatment Plant		
			(P) Ltd		
51	01-01-2013	Vetting of The Design and	M/s: Bihar Urban		
	То	Drawings Of 10 MLD Sewage	Infrastructure		
	31-12-2013	Treatment Plant at Bodhgaya	Development		
		Buidco Bihar,	Corporation Ltd		
			Patna		
52	01-01-2013	Vetting of The Design and	M/s: Bihar Urban		
	То	Drawings Of 16 MLD Sewage	Infrastructure		•
	31-12-2013	Treatment Plant at Buxar,	Development		
		Buidco Bihar,	Corporation Ltd		
			Patna		

53	01-01-2013	Vetting of The Design and	M/s: Bihar Urban		
	То	Drawings Of 17 MLD Sewage	Infrastructure		V
	31-12-2013	Treatment Plant at Begusarai	Development		
		Buidco Bihar,	Corporation Ltd		
			Patna		
54	17-07-2013	Vetting of The Design and	M/s: Bihar Urban		
	То	Drawings of Water Treatment	Infrastructure		•
	15-07-2014	Plant and Intake Structures for	Development		
		Patna Buidco,	Corporation Ltd		
			Patna		
55	01-03-2014	Evaluation of the performance	M/s: Karaipudur		
	То	of trial run of Zero Liquid	Common Effluent	V	
	31-08-2014	Discharge systems	Treatment Plant		
			(P) Ltd		
56	01-07-2013	TSS And Turbidity Monitoring	M/s: L&T		
	То	at Kattupalli Shipyard Cum Port	Shipbuilding	V	
	30-09-2014		Limited		
57	01-07-2014	VOC Monitoring at The Paint	M/s: Tractors &		
	То	Booth,	Farm Equipment		
	31-12-2014		Ltd		
58	20-11-2014	To evaluate the effectiveness of	M/s: Shriram		
	То	remediation of Chromium (VI)	Pistons & Rings		
	31-01-2015	contaminated site in and around	Ltd		
59	01-07-2014	TSS And Turbidity Monitoring	M/s: L&T		
	То	At Kattupalli Shipyard Cum	Shipbuilding	v	
	31-08-2015	Port,	Limited		
60	01-08-2015	Technical Assessment of DPRs	Public Health and		
	То	of integrated water supply and	Municipal		•
	31-10-2015	sewerage project of Nellore	Engineering		
		Municipal	Dept,Nellore		
61	22-09-2015	Approval for STP Design &	M/s: Muktha		
	То	Operation with Safety Measures	Foundation Pvt	V	
	21-11-2015	@ Muktha Triveni, Thiruverkadu	Ltd		

62	01-06-2015 To	Audit of TNWML Operated in Gummidipoondi,	M/s: Industrial Waste	✓
	01-12-2015	Gummarpoonar,	Management	
	01-12-2013		Association	
63	20-07-2015	Vetting design/drawings and	M/s: Radiance	
05	To	issue of stability certificate for	Realty Developers	\checkmark
	19-10-2015	the project"shine" located at	India Ltd	
	17-10-2013	oldmahabalipuram road	India Eta	
64	28-09-2015	Evaluation of Biosludge	M/s: Arulpuram	
04	To	Management through Biobricks	Common Effluent	\checkmark
	27-12-2015	Wanagement unough Diobheks	Treatment	
	27 12 2013		Company Pvt Ltd	
65	12-10-2015	To Evaluate the effectiveness of	M/s: Shriram	
00	То	remediation of Chrominum (VI)	Pistons & Rings	\checkmark
	11-01-2016	Contaminated site in and around	Ltd	
		Lohi,		
66	23-10-2015	Validation of the design and	M/s: Thermax Ltd	
	То	corroboration on the indigenous		V
	22-10-2016	development of innovative		
		vertical,		
67	01-10-2015	TSS and Turbidity Monitoring at	M/s: L & T	
	То	Kattupalli Shipyard cum port,	Shipbuilding	V
	30-09-2016		Limited	
68	14-10-2015	Feasibility study on Marine	M/s: Industrial	
	То	Disposal of Salts generated from	Waste	•
	13-04-2016	Effluent Treatment Plants of	Management	
		textiles	Association	
69	16-11-2015	Validation of Systems for "A	Center for Study	
	То	Platform for Integrated	of Science	•
	15-02-2016	Sanitation Investment	Technology &	
		Planning"-a Decision Support,	Policy	
70	15-07-2015	Performance of trial run of zero	M/s: Veerapandi	
	То	liquid discharge systems	Common Effluent	•

	14-01-2016	installed by Veerapandi CETP,	Treatment Plant		
	1.01_010		Thirupur		
71	20-07-2015	Vetting of design for 170 KLD	, M/s: Adroit		
	То	STP & 130 KLD STP at S.	Urban Developers	V	
	19-10-2015	No.80/8, Thalambur village,	Pvt Ltd		
		Chengleput taluk, Kanchipuram			
		District			
72	20-07-2015	Vetting of process design for	M/s:Amazon		
	То	150 m3/day sewage treatment	Envirotech Pvt		
	19-10-2015	plant & process design for 550	Ltd		
		m3/day sewage treatment plant			
		in Syntel GDC Siruseri,			
73	01-02-2016	Carrying out Environment Audit	M/s: CMR		
	То	for our Industry for CMR	Toyotsu	•	
	30-04-2016	Toyotsu Aluminium India	Aluminium India		
		Private Limited	Private Limited		
74	01-02-2016	Feasibility Study of Marine	M/s: The All india		
	То	Disposal of Salts Generated	Skin and Hide	•	
	30-04-2016	from Common Effluent	Tanners and		
		Treatment Plants (CETP)	Merchants		
			Association		
75	19-02-2016	Vetting the DPR and Estimate of	Ministry of	\checkmark	
	To	STP Project- Wellington	Defense	•	
	18-05-2016	Cantonment Board,			
76	04-01-2016	Proving storm water drainage	Public Health and		\checkmark
	To	scheme to Vijayawada	Municipal		·
	30-04-2016	municipal corporation,	Engineering		
			Department		
77	10.10.2016	Suitable Technology 9 Deci	Vijayawada		
77	10-10-2016 To	Suitable Technology & Design	TWADDoord	\checkmark	
	To 09-04-2017	for Sewage Treatment Plant	TWAD Board	-	
	09-04-2017	(STP) for 6.5 MLD for Kodaikanal Municipal			
		Kodaikanal Municipal			

78	01-01-2017	To Testing Soil Samples for	M/s:Shriram	
	То	Contamination of Hexavalent	pistons & Rings	V
	30-06-2017	Chrominum around Lohianagar,	Ltd.	
		Ghaziabad		
79	13-12-2017	Evaluation of 100% Capacity	Mannarai	
	То	Run of CETP Zero Liquid	Common Effluent	
	12-03-2018	Discharges	Treatment Plant	
80	22-01-2018	Veerapandi Common Effluent	Veerapandi	
	То	Treatment Plants - Zero	Common Effluent	V
	21-06-2018	Discharge Projects - Evaluation	Treatment Plant	
		of Trial Run	(P) Ltd	
81	02-05-2018	Identification of Ecologically	Tamilnadu	
	То	Sensitive Areas for Ban on Use	Pollution Control	
	31-10-2018	of Use and Throw Plastics	Board	
82	06-04-2018	Health, Safety and Environment	M/s. Cetex	
	То	Audit for M/s. Cetex	Petrochemicals	•
	05-10-2018	Petrochemicals Ltd	Ltd	
83	02-04-2018	Evaluation of Sensors &	Greenvironment	
	То	Accuracy of Real Time	Innovation &	•
	01-10-2018	Monitoring (RTM) of	Marketing India	
		Wastewater Treatment plant	(P) Ltd	
84	01-01-2017	To Testing Soil Samples for	M/s: Shriram	
	То	Contamination of Hexavalent	pistons & Rings	
	30-09-2019	Chrominum around Lohianagar,	Ltd	
		Ghaziabad		
85	22-06-2018	Water Management adequacy	M/s:Renault	
	То	study for RNAIPL Plant at	Nissan	▼
	31-12-2018	Oragadam	Automotive India	
			Pvt. Ltd	
86	01-08-2018	Pilot Study of Rettai Eri Lake	Chennai	
	То	Kolathur	Metropolitan	▼
	30-01-2019		Water Supply &	
			Sewerage Board	

87	20-08-2018 To 19-02-2019	WTP Process and Hydraulic Design for 1900MLD Water Treatment Plant under Package XV in Amaravati,	M/s: NCC Limited	✓
88	01-08-2018 To 28-02-2019	Water Treatment Plants for the work of Rural Piped water supply Schemes pertaining to Keonjhar	M/s: NCC Limited	✓
89	01-10-2018 To 30-04-2019	Technical Appraisal of the DPR for the M/S Ayyampet common Effluent Treatment Plant pvt ltd	Ayyampet Muthialpet Bleaching And Dyeing Effluent Treatment Co Limited	✓
90	01-12-2018 To 31-05-2019	Auditing the Performance of Ozone units in the RANITEC CETP	Ranipet Tannery Effluent Treatment Company Private Limited	✓
91	13-02-2019 To 12-02-2020	Study of Contaminated UPSIDC Plot No: A-19, Meerut Road, Ghaziabad & Study the adequacy of Existing	M/s: Shriram pistons & Rings Ltd	✓
92	04-03-2019 To 03-03-2020	Help in DPR preparation with plant parameters and design outline for contingency measures to augment	Chennai Metropolitan Water Supply & Sewerage Board	✓
93	13-10-2017 To 12-10-2022	Technology License and Monetization Agreement for Drinking water quality test kit	Weaver Technologies LLP	✓
94	20-06-2019 To 19-12-2019	Study on pollution abatement process of Budha Nallah, Ludhiana	M/s: TATA Projects Limited	✓
95	16-06-2019 To 15-12-2019	Proof Checking of Plant Design" of STP & WTP in IIT Palakkad	M/s: DDF Consultants Private Limited	✓

96	14-07-2019	Vetting the Design for Pipe	M/s: Aurobindo	
	То	Reactor system of Galaxy	Realty &	
	16-01-2020	Towers	Infrastructure	V
97	26-07-2019	Detailed Project Report for ZLD	M/s: Gangapuram	
	То	for Gangapuram Common	Common Effluent	
	31-01-2020	Effluent Treatment Plant Pvt Ltd	Treatment Plant	V
			Private Limited	
98	13-9-2019	Detailed Project Report for ZLD	Kadayampatti	
	То	for proposed Kadayampatti	Common Effluent	
	12-3-2020	CETP	Treatment Plant	V
			(Bhavani) Pvt ltd	
99	13-9-2019	Detailed Project Report for ZLD	Kadayampatti	
	То	for propsed Textile common	Common Effluent	
	12-3-2020	reject management systems	Treatment Plant	
		private Limited (CRMS)	(Bhavani) Pvt ltd	
100	8-8-2019	Detailed Project Report for ZLD	Villarasampatti	
	То	for Villarasampatti CETP	Common Effluent	V
	7-2-2020		Treatment Plant	
101	5-9-2019	Detailed Project Report for ZLD	Green	
	То	for Green Kalingarayan	Kalingarayan	V
	4-2-2020	Common Effluent Treatment	Common Effluent	
		Plant Pvt Ltd	Treatment Plant	
102	9-8-2019	Detailed Project Report for ZLD	Suriyampalayam	
	То	for Suriyampalayam CETP	Common Effluent	
	8-2-2020		Treatment Plant	
103	10-1-2020	Detailed Project Report for ZLD	Erode Common	
	То	for Erode CETP	Effluent Treatment	•
	9-7-2020		Plant Pvt ltd	
104	22-4-2019	Identification of reliable source	AM CSR	
	То	for drinking water supply and	Foundation	
	31-3-2021	designing of conveyance		
		systems in vilangadupakkam		

105	24-1-2020	Tirunelveli City Municipal	Tirunelveli Smart	
105	2112020 То	Corporation, Construction of	City limited	\checkmark
	31-3-2021	Sewage Treatment Plant	City minted	
107	20-2-2020	Characterization of the surface	Chemical	
107	20 2 2020 To	water sludge and feeders to the	Industries	\checkmark
	19-2-2021	water bodies in and around	Association	
	17 2 2021	Ranipet Industrial area	1350010000	
108	27-4-2020	Vetting of design of iron-arsenic	Hydromaterials	
100	27 Т2020 То	removal plants to be installed in	Private Limited	\checkmark
	26-10-2020	Punjab	I II vuto Elilittoa	
109	01-12-2018	Carrying out Environment Audit	Government of	
105	To	for M/S Srides Shasun Ltd,	Puducherry	
	31-3-2021	Kalapet, Pondicherry	2	V
110	1-1-2021	Vetting of Process design and	Garrison Engineer	
110	То	Hydraulic Profiles of 4 proposed	West Jabalpur	V
	31-5-2021	STPs in Jabalpur Cantonment	*	
	010 2021	Area		
111	1-5-2021	Vetting of DPR for M/s:	Southern District	
	То	Southern District Textile	Textile Processing	V
	31-10-2021	Processing Cluster Pvt ltd	Cluster Private	
			Limited	
112	28-6-2021	DetailedProject Report (DPR)	Thirumalai	
	То	for the Remediation of	Chemicals Limited	•
	31-12-2021	Contaminated site within the		
		premises TCL, Ranipet		
113	28-6-2021	carrying out the Adequacy test	Thirumalai	
	То	needs to assess and certify the	Chemicals Limited	•
	31-12-2021	capacity of the upgraded ETP at		
		TCL., Ranipet to achieve ZLD		
114	1-8-2021	MEE Condensate COD	CHEMPLAST	
	То	reduction study	SANMAR	•
	31.1.2022		LIMITED	

115	9-11-2021 To 8-11-2022	Design and development of odour control bio-trickling filter for sewage treatment plants	IEC Fabchem Limited	~	
116	10-12-2021 To 30-06-2022	Assessment of the efficacy of Bioremediation status of Contaminated site within the premises of M/S Thirumalai Chemicals Ltd (TCL).	Thirumalai Chemicals Limited	~	
117	22-3-2022 To 30-09-2022	Proof-checking/ vetting of process design for 5 MLD STP (Sewage Treatment Plant) based on MBBR technology	NBCC (India) Limited	✓	
118	5-4-2022 To 30-09-2022	DPR for ZLD for proposed Common Effluent Treatment Plant (CETP) in Chinnalapatti, Dindigul	Chinnalapatti CETP Private Limited	✓	
119	6-6-2022 To 30-6-2025	Carrying out mass balance of mercury in the treatment processes of contaminated soil in Hindustan Unilever Limited, Kodaikanal	M/s:Hindustan Unilever Limited	~	
120	1-6-2022 To 31.5.2023	Development of treatment protocol for synthetic metal working fluids to meet the discharge standards specified by CPCB	M/s:Callington India Private Limited	~	
121	26.8.2022 To 28.2.2023	Third party Auditing of CHWTSDF, Gummidipoondi	M/s:Industrial Waste Management Association	 	

Continuing Education Programs

- 1. Advanced Waste Minimization and Management Technologies. Sponsored by AICTE under QIP program. Held during **20-25 November, 2000** at IIT, Kharagpur (Co-coordinator Dr. A.K. Dikshit). Also registered as CEC program.
- 2. Hazardous waste management. Sponsored by AICTE under QIP program. Held during **7-18 July, 2003** at IIT, Madras (Co-coordinator Dr. B.K. Bezbarua). Also registered as CEC program.
- 3. Video Course on "Water and Wastewater Engineering" (30 Lectures), NPTEL, IIT Madras (2005-2006).
- 4. **Documentary** on "Water recycle and Reuse", CD Cell, Continuing Education Centre, IIT Madras (AICTE Sponsored, **2007**)
- Contaminant Transport Modeling: Theory and Application Sponsored by AICTE under QIP program. Held during **11-16**, **June**, **2007** at IIT, Madras (Co-coordinator Dr. B.S. Murty). Also registered as CEC program
- Collection, treatment and Distribution of Water and Wastewater. Training Program conducted for Nagarjuna Construction Company (CEP) during 11-13 September, 2007 at IIT, Madras (Coordinator Dr. B.S. Murty)
- Collection, treatment and Distribution of Water and Wastewater. Training Program conducted for Nagarjuna Construction Company (CEP) during 18-20 November, 2008 at IIT, Madras (Co-coordinator Dr. B.S. Murty)
- 8. Collection, treatment and Distribution of Water and Wastewater. QIP/CEP program during 25-31 August, **2008** at IIT, Madras (Co-coordinator Dr. B.S. Murty)
- 9. Water Quality and Related Health Issues. Two day Training Program, sponsored by UNICEF. Held at IIT Madras During 14-15, November, **2008** (Co-coordinator Dr. Indumathi Nambi)
- About 30 Training workshop on Community Based Water Quality Monitoring System (Organized for the Community Level Stakeholders of Village Panchayat), Krishnagiri District, Tamilnadu, Sponsored by UNICEF, 2009-2012

Fellow of following Scientific/Technical bodies

Royal Society of Chemistry (FRSC) National Academy of Engineers (FNAE)

Associate Editor /Subject Editor/ Editorial board Member

- 1. Editorial Board Member, Environmental Science: Water Research & Technology, RSC (2016 onwards)
- 2. Subject Editor. H2Open Journal. IWA publication (2016 onwards)
- 3. Editorial Board Member. Journal of Environmental Science and Engineering, National Environmental Engineering Research Institute (NEERI) (2010 onwards)
- 4. Associate Editor, Journal of Hazardous Toxic and radioactive waste, American Society of Civil Engineering, (ASCE) (2010-2015)
- 5. Editorial board member. Applied biochemistry and biotechnology (Springer) 2011-2015

Expert Committee Member

- 1. Chairperson, BOG, Government College of Engineering, Trissur Kerala
- 2. Member, BOG, Abdul Kalam Technical University Kerala
- 3. Member, Board of Infrastructure, IIM Vishakhapatnam
- 4. Member, Finance Committee, IIT Palakkad
- 5. Chairperson, BIS Water Purification Subcommittee under the Drinks and Drinking Water Sectional Committee, FAD 14: 2
- 6. DST PAC member, Civil and Mechanical Engineering
- 7. DST Women Scientist Scheme (WOS-A) Subject Expert Committee (SEC) Engineering Technology.
- 8. DST PAC member, FIST Program
- 9. Pollution Control Board, Pondicheri. To assess the ground water contamination caused by Shashun Chemicals, Pondicheri
- 10. Department of Science and Technology, Govt. of India. To assess the research issues related to plastic and E-waste.
- 11. Tamilnadu Pollution Control Board. Many industrial process and pollution control process evaluation
- 12. High Court Chennai. To assess the water quality and environmental issues associated with Veeranam lakes due to quarrying operations
- 13. Appellate Authority, TNPCB. To assess the pollution potential of various Magnesium sulfate manufacturing industries in Salem, Tamilnadu.
- 14. Member, Board of Studies, S.V.University, Thirupathy
- 15. Member, Research Advisory Council, Vellore Institute of Technology etc..
- 16. Member, Board of Studies, Pondicherry University, Pondicherry
- 17. Expert Committee member, Modification of Govt. Order related to textile Industries, TNPCB

- 18. Expert Committee member, National Green Tribunal
- 19. Expert committee member Chennai Metropolitan Development Authority
- 20. Project Advisory Committee member, DBT etc
- 21. Many committee members of Tamilnadu and Kerala Pollution control boards, Sabarimala etc
- 22. A member of the Committee for preparation of roadmap for grey water management works in villages under Jal Jeevan Mission (JJM)
- 23. A member of panel of experts in drinking water sector with a view to assist all stake holders of JJM, in its endeavor to transform the drinking water supply sector from 'infrastructure creation' to 'service delivery' approach
- 24. A member of several Committees of BIS dealing with drinking water and point of use water treatment systems
- 25. A Member of NGT committee on assessment of Impact of Thermal power plants on the water environment in the areas North of Chennai area

Corporate Activities

- 1. Head, Environmental and Water Recourses Engineering Laboratory, IIT Madras (Dec 2005 –July, 2009)
- 2. Warden Sharavathi Hostel, IIT Madras (Oct 2007- March, 2011)
- 3. Area Coordinator for waste management group. Indo-German Centre for sustainability (2010- till date)
- 4. Co-Chairperson, Engineering Unit, IIT Madras (Sept, 2013- Feb., 2015)
- 5. Chairperson, Engineering Unit, IIT Madras (Feb 2015- Oct 2017)
- 6. Dean, Planning, IIT Madras (Oct 2017 Till date)