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

2025

- 1. Sumit Kumar, Arkaprabha Giri, G Shreeraj, Abhijit Patra, Ligy Philip (2025) "Functionalized Triptycene-based Porous Polymer Networks for Pharmaceuticals Removal: Unveiling Role of Ultrasound in Adsorption", Journal of Environmental Chemical Engineering, Volume 13, Issue 2, April 2025, 115811, DOI: https://doi.org/10.1016/j.jece.2025.115811
- Sumit Kumar, Chetna Tewari, Ligy Philip, Nanda Gopal Sahoo (2025) "Enhanced physicochemical properties of Himalayan Weeping Bamboo-biochar for rapid multicomponent textile dyes uptake under classical and ultrasound irradiation: A comparative study", Next Sustainability, Volume 5, Article No: 100089, DOI: https://doi.org/10.1016/j.nxsust.2024.100089.

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- Bhesh Kumar Karki, Ligy Philip, · Kajiram Karki, Anish Ghimire (2024) "Insight into Urban River Water Quality Using Ecological Risk Assessment Based on Risk Quotient" Water Conservation Science and Engineering, Volume 9, Article No: 56, DOI: https://doi.org/10.1007/s41101-024-00289-1
- Mohammed Iqbal Thayyil, Ligy Philip, (2024) "Attached growth microalgae-bacteria consortia: A sustainable option for in-situ remediation of contaminated open drains" Journal of Environmental Chemical Engineering, Volume 12, Issue 5, DOI: https://doi.org/10.1016/j.jece.2024.113837
- 6. Ritik Anand , **Ligy Philip**, (2024) "Catalytic Pulse Plasma Treatment for Organic Micro pollutants: Unveiling the Synergistic Role of Photocatalysts in Radical Generation and

Degradation Mechanisms" Environmental Science Water Research & Technology, DOI: 10.1039/D4EW00167B.

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- Pinakshi Biswas, Bhanu Prakash Vellanki, Manthiram Karthik Ravichandran, Absar Ahmad Kazmi, and Ligy Philip (2024) "Widespread Surveillance of Emerging Contaminants in the Yamuna River Basin: Evaluation of Surface Water, Sediments, Groundwater, and Aquatic Plants"ACS EST Water, DOI: https://doi.org/10.1021/acsestwater.3c00627
- Hyeon Tae Kim, Ligy Philip, Andrew McDonagh, Md Johir, Jiawei Ren, Ho Kyong Shon, Leonard D. Tijing (2024) "Recent Advances in High-Rate Solar-Driven Interfacial Evaporation" Advance Science, Volume 11, Issue 26, DOI: https://doi.org/10.1002/advs.202401322
- Vaishali Choudhary and Ligy Philip, (2024) "Zn-Co layered double hydroxide-based capacitive systems for removal and recovery of phosphate from aqueous environments" Colloids and Surfaces A: Physicochemical and Engineering Aspects, Article No: 133815, DOI: https://doi.org/10.1016/j.colsurfa.2024.133815
- 11. Vishnu V Akula, Gayathri Ramalingam, Akshaya Kumar Verma, Zeev Ronen, Yoram Oren, Jack Gilron, Ligy Philip, (2024) "Performance evaluation of pilot scale ion exchange membrane bioreactor for nitrate removal from secondary effluent" Journal of Cleaner Productio, Volume 442, Article No: 141087, DOI: https://doi.org/10.1016/j.jclepro.2024.141087
- 12. Bhesh Kumar Karki, **Ligy Philip**, (2024) "Fate of pharmaceuticals and personal care products like metronidazole, naproxen, and methylparaben and their effect on the physiological characteristics of two wetland plants" **Chemical Engineering Journal**, Article No: 149180, DOI: https://doi.org/10.1016/j.cej.2024.149180
- 13. Pragadeesh Subramani,Milan Basil, Praveen Rosario, Dijin Ramachandran Jalaja, Vaishali Choudhary, Jayakumar Renganathan, Ligy Philip, Kangwoo Cho, Claire Welling, Sonia Grego and Clèment Cid, (2024) "Water recycling public toilets based on onsite electrochemical wastewater treatment" Environmental Science: Water Research and Technology, Volume 10, Page 157-167,DOI: https://doi.org/10.1039/D3EW00454F

- Vishnu V Akula, Ligy Philip, (2023) "Removal of harmful oxyanions from contaminated water by Donnan dialysis" Journal of Water Process Engineering, Volume 55, Article No:104085, DOI: https://doi.org/10.1016/j.jwpe.2023.104085
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- 16. 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
- Vellingiri, K., Choudhary, V., Boukhvalov, D.W., Ligy Philip,. (2022) "Overview of Catalytic Removal of Parabens from Water and Wastewater" ACS ES and T Water, Volume 2, Issue-9, Page No:1475 - 1499, DOI: 10.1021/acsestwater.2c00037
- 22. 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, Article No: 107592, DOI: 10.1016/j.jece.2022.107592

23. 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

- 24. 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
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- 27. 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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- Krithika, D, Sharon, H, Reddy, K.S and Ligy Philip, (2021) "Performance evaluation of solar thermal systems as an alternative for human waste treatment" Sustainable Energy Technologies and Assessments, Volume 47, Article Number: 101393, DOI: 10.1016/j.seta.2021.101393
- 30. Choudhary, V., Vellingiri, K., Thayyil, M.I., Ligy Philip (2021) " Removal of antibiotics from aqueous solutions by electrocatalytic degradation" Environmental Science: Nano, Volume 8, Issue 5, Pages 1133 1176, DOI: 10.1039/d0en01276a
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- 35. Mukherjee.S, Shah.M, Chaudhari.K, Jana.A, Sudakar.C, Srikrishnarka.P, Islam.M.R., Ligy Philip, and Pradeep.T (2020) "Smartphone-based Fluoride-specific Sensor for Rapid and Affordable Colorimetric Detection and Precise Quantification at Sub-ppm Levels for Field Applications", ACS Omega, Volume 5(39) Pages 25253-25263, DOI: 10.1021/acsomega.0c03465
- 36. Nippala N, and Ligy Philip (2020) "Electrochemical process employing scrap metal waste as electrodes for dye removal" Journal of Environmental Management, Volume 273(1) Article number 111039, DOI:10.1016/j.jenvman.2020.111039
- 37. 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
- 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

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- 47. Nippatlapalli, N, Ligy Philip (2020) "Assessment of novel rotating bipolar multiple disc electrode electrocoagulation-flotation and pulsed plasma corona discharge for the treatment of textile dyes", Water science and technology: a journal of the International Association on Water Pollution Research, Volume 81(3), Pages 564-570, DOI: 10.2166/wst.2020.137

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- 49. Sharon, H, Reddy, K.S, Krithika, D, Drupad Chand, Belmin Benny and Ligy Philip, (2020) "Thermal modeling, characterization, and enviro-economic investigations on inclined felt sheet solar distiller for seawater desalination" Environmental Science and Pollution Research, Volume 28, Pages 63572–63588, DOI: https://doi.org/10.1007/s11356-020-10831-y

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- 118 Akula Vishnu Vardhan and Ligy Philip "Comparison of glycerol and raw wastewater

as carbon sources for denitrification of nitrate rich effluent stream", Water Security and Climate Adaption Conference (WSCA) 2023, IIT Madras, India, 4th – 7th October 2023.

- 119 Ankit Kumar and Ligy Philip "Simultaneous removal of fluoride and perchlorate from groundwater", Water Security and Climate Adaption Conference (WSCA) 2023, IIT Madras, India, 4th – 7th October 2023.
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- 121 Mohammed Iqbal and **Ligy Philip** "Performance evaluation of microalgae bacteria consortia for pollutant removal from municipal wastewater", Water Security and Climate Adaption Conference (WSCA) 2023, IIT Madras, India, 4th 7th October 2023.
- 122 Ritik Anand and Ligy Philip "Catalytic Vs Non-Catalytic Pulse Plasma Treatment: Environment and Economics", Water Security and Climate Adaption Conference (WSCA) 2023, IIT Madras, India, 4th – 7th October 2023.
- 123 Pooja and Ligy Philip "Bioleaching of Municipal Sludge Through Sulfur Oxidising Bacteria", Water Security and Climate Adaption Conference (WSCA) 2023, IIT Madras, India, 4th – 7th October 2023.
- 124 Ligy Philip "RBF along with reactive barriers for the removal of emerging contaminants from drinking water", International Riverbank Filtration Conference, Dresden, Germany, 16th 18th October 2023.
- 125 Vishnu Vardhan A, Gayathri R, Franco A Deepan, and Ligy Philip, "Effective Nitrate Removal from High-Nitrate Wastewater using Ion Exchange Membrane Bioreactor (IEMB) Technology", IWA International Conference on Water & Wastewater Management with special focus on Developing Countries (WWMDC 2023), Murdoch University, Perth, Australia, 3rd - 8th December 2023.
- 126 Ligy Philip, Programme Committee in IWA Water and Development Congress & Exhibition, Kigali Rwanda, 10th 14th December 2023.
- 127 Vishnu Vardhan A and Ligy Philip, "Removal of Nitrate using Ion Exchange Membrane Bioreactor" SARASWATI 2.0 Final Consortium Meeting, Seville, Spain, 27th - 29th May 2024
- 128 Subham Meher and Ligy Philip, "Potential of Combined Nitrous Acid and Alkaline Fermentation in Volatile Fatty Acid Production Using Sludge from Wastewater Treatment Plants" 10th International Conference on Engineering for Waste and Biomass Valorisation, held in Tohoku University, Sendai, Japan, 22nd – 23rd August 2024.

- 129 Akash Saha and Ligy Philip, "Bio-hydrogen production from co-fermentation of sewage sludge and yard waste" 10th International Conference on Engineering for Waste and Biomass Valorisation, held in Tohoku University, Sendai, Japan, 22nd – 23rd August 2024.
- 130 Ligy Philip "Research Groups and Gist of Research Work Carried Out @IIT Madras in The Area of WASH and NSS", Africa-Asia Sanitation Research Network (AARN) Collaborative Workshop on Non-Sewered Sanitation (NSS), Organized by Isle Utilities, Bangkok, Thailand, 22 – 24 September 2024.
- 131 Yogita and Ligy Philip, "Microalgae-bacteria consortia: simultaneous removal of nutrients and majorly occurring antibiotics, revealing metabolic pathways and physiological responses." 7th International Conference on Challenges in Environmental Science and Engineering, Pula, Croatia. during 13th to 17th of October, 2024.
- 132 Bhesh Kumar Karki and Ligy Philip, "Assessing the Roles of Components (Plants and Biochar) Removing Methylparaben in Hybrid Constructed Floating Wetlands," 7th International Conference on Challenges in Environmental Science and Engineering, Pula, Croatia. during 13th to 17th of October, 2024 (Online)
- 133 Ligy Philip "Sustainable Wastewater Management by Adopting Circular Economy Principles: Status and Challenges", Second International Conference on "Water for Life 2024", IIT Madras, India, 12th – 14th December 2024.
- 134 Mohammed Iqbal and Ligy Philip "Engineered Natural Systems for in-stream remediation of contaminated drains", Second International Conference on "Water for Life 2024", IIT Madras, India, 12th – 14th December 2024. (Poster Presentation)
- 135 Deepchandra Joshi and Ligy Philip "Statistical geospatial modeling and risk characterization of Per- and polyfluoroalkyl substances (PFAS) contamination in Chennai (India)", Second International Conference on "Water for Life 2024", IIT Madras, India, 12th – 14th December 2024. (Poster Presentation) Best Poster Award
- 136 Pooja and Ligy Philip "Comparison of Bioleaching of Heavy Metals from Different Types of Dewatered Sludge Combined with Metals Speciation", at AGU24 Annual Fall Meeting, held during 9-13 December, 2024 at Washington, D.C., USA. (Poster Presentation)
- 137 Maanashi Triapthi, S.M Bhallamudi,and Ligy Philip "Removal of Algal Cells and Microcystin-LR using Native Bacterial Consortia "IWA 21st International Conference on Diffuse Pollution & Eutrophication, December 11-14, 2024. The Empress Premier Hotel in Chiang Mai, Thailand.

• Presented in National Conferences

- 1. Ligy Philip, Leela Iyengar and C. Venkobachar (1994). Immobilized Microbial (Pseudomonas aeruginosa) Reactor for Copper Removal and Recovery from Wastewater. Proceedings of the National Seminar on Clean Environment, Strategies, Planning and Management, Lucknow, India.
- 2. Ligy Philip and C. Venkobachar (1999). Water Quality: Present Scenario. Proceedings of the National Conference on "Water Resources Management for Sustainable Development" held at SV University, Thirupathy during 12-13 March, 1999
- 3. NDVNSM Krishna and Ligy Philip (1999). Biofiltration: An attractive alternative for the Abatement of Air Pollution from Industries. National Seminar on Waste Management, Sponsored by AICTE and held at Samrat Ashok Technological Institute on 26-27, 1999.
- 4. P.K. Ghosh, **Ligy Philip** and M. Bandyopadhyay (2001). Effect of Atrazine on Anaerobic Treatment of Wastewater. Proceedings of the National conference RAWM-2001 held in Banaras Hindu University, During 23-25, February, 2001
- 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)
- 6. Ligy Philip (2003). Biofiltration for the control of VOC's and Flue gases (Invited Paper). National Seminar on Regional air Quality Monitoring and Policy Making held in Vellore Institute of Technology, Vellore during June 12-14, 2003.
- **7.** Shihabudheen M.M, Venkatraman Srinivasan and Ligy Philip (2003). Performance evaluation of a biosystem treating BTX under substrate versatility condition. National conference on advances in Environmental Science and Engineering, Dec. 2003, IIT Bombay.
- **8.** Mathava kumar S and **Ligy Philip** (2004), "Endosulfan degradation by a mixed bacterial culture", First CUSAT national conference on Recent Advances in Civil Engg (RACE-2004), 25-27, Mar, Kochi India.
- **9.** Mathava kumar S and Ligy Philip (2004), "Leaching characteristics of Endosulfan contaminated Indian soils and possible immobilization techniques ", 11th National symposium on Hydrology with focal theme on water quality, 22-23, Nov, National Institute of Hydrology, Roorkee, India
- **10.** Shihabudheen M. Maliyackal and Ligy Philip (2006). Removal of arsenic from drinking water using manganese oxide coated Alumina. Material Preparation and Characterization.

National Conference on Environmental Management-Geospatial Technologies for Sustainable Development, Nov 16-18, 2006, Hyderabad.

- 11. Ligy Philip (2008). Bioremediation of Contaminated soil, water and Air. ugc sponsored national workshop on 'Save the environment, help mankind survive' held in St. Josephs College for Women, Vizhaghapatnam September 1-2, 2008. (Key Note Address)
- Balasubramanian P, Ligy Philip and B S Murty.(2009) Biodegradation of chloroform by mixed pesticides enriched bacterial cultures, Advances in Environmental Engineering (AEE-09), Nov, 14 - 15, 2009, National Institute of Technology, Rourkela. ISBN: 978 -93-80043-45-6.
- Priya Ragagopalan and Ligy Philip (2012). Interaction of Dichloromathane with other VOCs from Pharmaceutical Wastewater. Recent Advances in Civil Engineering (RACE 2012), November 29 - December 1 -2012. Organised by School of Engineering, Cochin University of Science and Technology, Kerala, India
- Arya V. and Ligy Philip(2012). Development of an Environmentally Friendly Water Treatment System using N-doped TiO₂. Recent Advances in Civil Engineering (RACE 2012), November 29 - December 1 -2012. Organised by School of Engineering, Cochin University of Science and Technology, Kerala, India.
- 15. Ligy Philip (2012). "Bioremediation of Endosulfan Contaminated Soil and Water". LAKE 2012. National Conference on Conservation and Management of Wetland Ecosystems, 6-8 November, 2012. School of Environmental Science, Mahatma Gandhi University, Kottayam, Kerala (Key Note Address)
- Priya V. S and Philip L.(2012) Interaction of Dichloromethane with other VOCs from Pharmaceutical Wastewater. National conference in Recent advances in civil engineering, 29-11-12 to 1-12-12 at Cochin University of science and technology.
- 17. Arya. V, Ligy Philip.(2012) Solar Photocatalytic Disinfection Using N-Doped Titanium Dioxide. Recent Advances in Civil Engineering-2012" organized by CUSAT, Kochi, Kerala.
- 18. Anupama S, Balaji S, Ligy Philip, T. Pradeep.(2015) Removal of Diclofenac from treated effluent. Seminar cum Workshop on Micropollutants in Water and their Hazards" Jan 12-13, 2015, IIT Madras, Chennai, India.
- 19. Arya. V, Ligy Philip, B. S. Murty.(2015) Fate of emerging contaminants in biological processes. Seminar cum Workshop on Micropollutants in Water and their Hazards" Jan 12-13, 2015, IIT Madras, Chennai, India.

- Singh Raj Kamal, Philip L, Sarathi R.(2015) "Water treatment adapting pulsed power technology" Seminar cum Workshop on Micropollutants in Water and their Hazards" Jan 12-13, 2015, IIT Madras, Chennai, India.
- 21. Madumathi, **Ligy Philip**, and S. MurtyBhallamudi, (2016) "Co-transport of clay colloids with bacteria in saturated porous media". Clean Up India 2016, Dec 13 16, 2016, Coimbatore, India
- 22. Krithika Delhiraja, Sharon Nadar, **Ligy Philip** and Srinivas Reddy (2017) paper entitled on "Zero DischargeToilet- A Sustainable Approach For Toilet Technology" SANIVATION' 2017, 18th-19th November 2017, YASHADA,Pune,India.
- 23. Anu Rachel Thomas and Ligy Philip (2017) "NOWAH- No waste at Household: A novel, smart, sustainable and complete treatment technology for feacal sludge and organic waste management" (2017) SANIVATION 2017 YASHADA, Pune, India
- 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)

- 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
- 31. Narasamma.N and **Ligy Philip**, (2019). Electrocoagulation-floatation assisted pulsed power plasma technology for the complete mineralization of potentially toxic dyes and real textile wastewater presented in Inter IIT Tech Meet 8.0; conducted by IIT Roorke, Uttarkhand, India (20-23 December 2019)
- 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)
- 37. Bhesh Kumar Karki, Manthiram Karthik Ravichandran, Ligy Philip, "Constructed Wetlands for Wastewater Treatment in India: Insights from Recent Developments" Roorkee Water Conclave 2024, IIT Roorkee, 3^{th -} 6th March 2024.
- 38. Ligy Philip, Distinguished Speaker in National Workshop on "Technology Readiness Assessment of Drinking Water Purification System 2.0" Organized by ICCW in IIT Madras Research Park during 22nd – 23rd August 2024.
- 39. Ligy Philip, Sumit Kumar and Saikumar. V, Exhibit Stall "DST IIT Madras Water Innovation Centre (SUTRAM for EASY WATER) " in 8th India Water Week 2024 Organized by Ministry of Jal Shakti, Government of India during 17th – 19th September 2024.
- Ligy Philip, Keynote Speaker "Sustainable Synergies Exploring the water Food Technology Nexus "in FOOD SURE - 2024 Organized by Loyola College, Chennai on 9th October 2024.

• 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.
- 9. 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.
- Ligy Philip, Water analysis Kit for the technology knowhow, M/s: Greenvironment Innovation & Marketing India (P), C-507, 5th Floor, IIT Madras Research Park, Kanagam Road, Chennai - 600113, Agreement No: EF 414869 dt: 16th August 2024.

- Ligy Philip, Wastewater Powered by Solar Energy, M/s: MU Sustainability Private Limited, No. 50, First Street, Srinivasa Nagar, Perungudi, Chennai, TN 600096. Agreement No: DH 996826, dt: 13th January 2025
- 12. Ligy Philip, Sustainable recycling unit for household greywater, M/s: MU Sustainability Private Limited, No. 50, First Street, Srinivasa Nagar, Perungudi, Chennai, TN 600096. Agreement No: DH 996828, dt: 13th January 2025

Book Published

Book Title "Technological Solutions for Water Sustainability: Challenges and Prospects: Towards a Water-secure India."

Editor: Ligy Philip; Thalappil Pradeep; S. Murty Bhallamudi

Publisher: IWA Publishing Publication date: November 2023

Book Chapters

- 1. 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
- Eldon, R.R., Shihabudheen, M.M., Ligy Philip., Swaminathan, T. (2004) Substrate Versatility Studies on the Aerobic Degradation of BTX Compounds." Soil and Sediment Contamination. Taylor & Francis, Volume 13, Number 2 / March-April 2004.
- 3. 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
- 4. 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 (2012)
- 5. 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 (2012)

- 6. 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.(2012)
- 7. V. Arya, J.Senthilnathan and Ligy Philip (2014) "Modified TiO2-based photocatalytic systems for the removal of emerging contaminants from water" Book Name: Aqua Nanotechnology, Published in CRC Press
- 8. V. Arya and Ligy Philip (2016) "Removal of Pharmaceuticals from Water Using Adsorption" Book Name: Trends in Asian Water Environmental Science and Technology, Published in Springer International Publishing
- Ligy Philip and Bhallamudi S Murty (2017) "Appropriate interventions and technologies for Providing Safe Drinking Water to Rural and Underprivileged communities" Book Name: The Water-Food-Energy Nexus: Processes, Technologies, and Challenges, Published in CRC Press
- 10. C. Ramprasad, D. Krithika, and Ligy Philip (2018) "Sustainable Wastewater Management Through Decentralized Systems: Case Studies" Book Name: Water Scarcity and Ways to Reduce the Impact, Published in Springer International Publishing
- 11. Naresh Kumar Sharma, Ligy Philip & B. S. Murty (2018) "Aerobic Degradation of Complex Organic Compounds and Cyanides in Coke Oven Wastewater in Presence of Glucose" Book Name: Urban Ecology, Water Quality and Climate Change, Published in Springer International Publishing
- 12. Aviraj Datta and Ligy Philip (2018) "Biodegradation Kinetics of Toluene, Ethylbenzene, and Xylene as a Mixture of VOCs" Book Name: Urban Ecology, Water Quality and Climate Change, Published in Springer International Publishing
- 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.
- 14. Muthu Pannirselvam, Li Shu, Gregory Griffin, Ligy Philip, Ashok Natarajan, Sajid Hussain (2019) "Management Strategies and Technologies for Zero Liquid Discharge and Future Smart Cities" Book Name: Water Scarcity and Ways to Reduce the Impact, published in Springer
- 15. Ambrose, H. and Ligy Philip, and Sen, T. and Suraishkumar, G. (2019). "The effect of combined microwave and hydrogen peroxide pretreatment on sludge characteristics and oxidation status of waste activated sludge". Book Name: The Activated Sludge

Processes: Methods and Recent Developments, published in Nova Science Publishers Inc

- 16. Nippala N, and Ligy Philip (2021) "Advanced Oxidation Processes for Dye Removal" Book Name: Advanced Removal Techniques for Dye-containing Wastewaters, published in Springer
- 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.
- 18. 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'.
- Narasamma Nippatla, and Ligy Philip (2022) "Novel Rotating Disc Electrolytic Reactor based on Bipolar Electrochemistry for the Treatment of Industrial Wastewater" published in Springer International Publishing for book Environmental Degradation: Monitoring, Assessment and Treatment Technologies'.
- 20. B.S.Murty and Ligy Philip (2023) "Sustainable management of water" Published in IWA Publishing for book Technological Solutions for Water Sustainability: Challenges and Prospects: Towards a Water-secure India.
- 21. Syed Arwa A. Balkhi ; Bhesh Kumar Karki ; Ligy Philip (2023); Shihabudheen M. Maliyekkal "Water quality status and challenges in India and Nepal" Published in IWA Publishing for book Technological Solutions for Water Sustainability: Challenges and Prospects: Towards a Water-secure India.
- 22. Arya Vijayanandan ; Absar Ahmad Kazmi ; Ligy Philip (2023) " Domestic and industrial wastewater treatment: current status and challenges in India" Published in IWA Publishing for book Technological Solutions for Water Sustainability: Challenges and Prospects: Towards a Water-secure India.
- 23. Jerin Jose; Raj Kamal Singh; Ligy Philip (2023) "Pulsed power technology for water and wastewater treatment" Published in IWA Publishing for book Technological Solutions for Water Sustainability: Challenges and Prospects: Towards a Water-secure India.
- 24. Vaishali Choudhary; Sumit Kumar; Chetna Tewari; Nandagopal Sahoo; Ligy Philip (2023) "Water pollution abatement using waste-derived materials: a sustainable approach" Published in IWA Publishing for book Technological Solutions for Water Sustainability: Challenges and Prospects: Towards a Water-secure India.

- 25. Vaishali Choudhary; Kowsalya Vellengiri; Ligy Philip (2023) "Low-cost colorimetric sensor for water quality monitoring" Published in IWA Publishing for book Technological Solutions for Water Sustainability: Challenges and Prospects: Towards a Water-secure India.
- 26. Subham Meher, Akash Saha ,Ligy Philip (2025) "Biotechnological Innovation in Valorization of Sludge from Wastewater for Environmental Sustainability" Published in Springer for book Smart Waste and Wastewater Management by Biotechnological Approaches.

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)
- 9 **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)
- 20 **Swathy.** Nanotechnology application for water treatment (Main Guide –Prof.T. Pradeep) (**Completed**, September 2019)
- 21 **Krithika D:** Onsite household wastewater management for maximizing the reuse of treated water. (**Completed**, May 2020)
- 22 **Anu Rachel Thomas**: Septage management through composting and understanding the fate of emerging contaminants during the treatment. (**Completed**, August 2020)
- 23 **Jerin Jose**: Water and Wastewater Treatment by High Energy Electron Beam Irradiation and High Voltage Pulse Power Technology (**Completed**, March 2021)
- 24 **Nippatala Narasamma.** Application of Pulse power technology and pulse power coagulation for Tannery and textile wastewater treatment (**Completed**, April 2021)
- 25 **Sritama Muherjee**: Arsenic removal from Water through Nano Technology Application (Main Guide Prof.T. Pradeep) (**Completed**, August 2021)
- 26 **Manthiram Karthik.** Removal of Pharmaceuticals and Personal Care Products using Engineered Natural Treatment Systems (**Completed**, September 2022)
- 27 Vaishali Choudhary, Integrated treatment systems for resource recovery from secondary treated effluent to attain closed-loop water management (Completed April 2023, Best thesis in GE Ecomagination Excellence Award)
- 28 **Vishnu Vardhan,** Removal of harmful oxyanions from wastewater using ion exchange membrane bioreactor and recovery of phosphorus as vivianite (**Completed**, November 2024)

29 **Sumit Kumar,** Industrial Wastewater treatment using value-added composites in a hybrid advanced oxidation process (AOP), (**Completed**, December 2024)

Ongoing

- 30 **Mohammed Iqbal Thayyil:** Climate Change Impacts on Coastal Infrastructure and Adaptation Strategies
- 31 **Pooja**: Heavy metals removal along with nutrients recovery from Industrial wastewater
- 32 **Yogita Gupta:** Industrial wastewater treatment
- 33 **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
- 38 **Sohaib Rashid Rather**: Water, wastewater treatment & resource recovery.
- **b**) **M.S**
- 1. **S.Somasundaram**.Simultaneous treatment of Tannery and Electroplating industrial wastewaters (Co-guide: Prof. B.S. Murty, Completed, 2010)
- 2. **Ritik Anand:** Catalytic Pulse Power Technology for removal of Toxic Organic Contaminants (Completed, 2024)
- **3. Ankit Kumar**: Integrated Approach for Simultaneous Removal of Fluoride and Nitrate from Groundwater: Ion Exchange Membrane Bioreactor Linked with Defluorination Unit (Completed, 2024)

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
- 31 **Baluguru Nithin Reddy (2023)**: A complete solution for the treatment of agricultural runoff using hydroponics and advanced oxidation technology
- 32 Kaustav Ghosal (2023): Towards Carbon-neutral construction in rural areas using treated or partially treated wastewater
- 33 **Kajal Jain (2024):** Emerging treatment technologies for large Municipal Water Treatment Plants for optimized Capex, Opex & Footprint

National and International Patents

Sl.No	Title	Inventors	Application No	Filed On	Granted On	Patent Awarded
1	Pulsed Power Technology based water treatment unit for the removal of pesticide, pharmaceutically active compounds and pathogens	Prof. Ligy Philip, Prof. Sarathi R, Dr.Raj Kamal Singh	201741039931	09/11/2017	13/10/2020	349146
2	Pulsed Power Technology based water treatment unit for the removal of pesticide, pharmaceutically active compounds and pathogens	Prof. Ligy Philip, Prof. Sarathi R, Dr. Raj Kamal Singh	PCT/IN2018/050727	09/11/2017	16/5/2019	WO/2019/092747 (International Patent)
3	A method and system for treatment of wastewater powered by solar energy	Prof. Ligy Philip, Prof. Boby George, Dr. Krithika D, Mr. Gaurav Lodha, Mr. Subham Kumar Sahana	201841039386	17/10/2018	18/4/2022	394888
4	A method of removing organic pollutants from water and wastewater	Prof. Ligy Philip, Dr. Senthil Nathan J	794/CHE/2011	16/03/2011	9/11/2018	303005
5	A paper-based sensor for detection of eutrophying nutrients in water and wastewater system	Prof. Ligy Philip, Ms. Vaishali Choudhary, Dr. Kowsalya Vellengri,	202141012240	22/03/2021	13/9/2022	406442
6	Renewable energy based closed loop sanitation system	Prof. Srinivasa Reddy K, Prof. Ligy Philip, Dr. Krithika.D, Dr.H.Sharon	201641018919	14/06/2016	8/1/2020	329105
7	Washing Machine with Rinse Water Treatment and Reuse	Prof. Ligy Philip, Prof. Bhaskar Ramamurthi, Prof. Boby George,	No:3387/CHE/2015	02/07/2015	31/7/2023	441978

		Dr.C. Ramprasad, Dr.D. Krithika , Mr. R. Nandagopal				
8	A planar Coil based water level and quality monitoring system	Prof. Boby George, Prof.Ligy Philip, Dr Subhas Mukhopadhyay Mr.Gaurav Lodha,, Mr. Subham Kumar Sahana	201941021491	24/7/2019	4/1/2024	494379
9	Process and system for recovery of phosphate with layered double hydroxide	Prof. Ligy Philip and Ms. Vaishali Choudhary	202241066167	18/11/2022		
10	A method and system for in-situ remediation of contaminated drains using engineered natural systems	Prof. Ligy Philip, Mr. Mohammed Iqbal Thayyil	202241062853	3/11/2022		
11	A Continuous Automated System and Method for Sensing of Nitrite in Water	Prof. Boby George, Prof.Ligy Philip, Fathima Iqbal	202341056058	21/8/2023	16/04/2024	533197

Sponsored Research Projects a) Sponsored Research Projects

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		•	
		Contaminated Soils				
2	21-03-2003	Development Of A Low Cost	Department of	Rs:6,10,632/-	\checkmark	
	То	Technology For Arsenic	Science			
	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		•	
	29-03-2007	Microbial Bioremediation		D		
4	07-07-2004	Monitoring of Toxic Pollutants	Asian Institute of	Rs:54,94,033/-	\checkmark	
	То	and Development of Flue Gas	Technology		•	
	30-06-2008	Control Technology for Clean				
~	01.00.0005	Air In Chennai		D 1 50 000/		
5	01-09-2005	Development of A Humane	IIT Madras	Rs:1,50,000/-		
	To	Sewer Cleaning System				·
	31-08-2007			D 5 (0 (0()		
6	18-09-2008	Monitoring Water Quality In	United Nations	Rs: 5,62,686/-		
	To 17-01-2009	Rural Habitats Of Krishnagiri	Children's Fund		-	
7	01-10-2007	Development Of Economical	IIT Madras	D at 9 50 000/		
/	01-10-2007 To	Development Of Economical And Easy To Use Water Quality	Alumini	Rs: 8,50,000/-	\checkmark	
	30-09-2009	Test Kits	Aluiiiiii		-	
8	19-12-2009	Development Of Models For	Ministry of	Rs: 22,65,865/-		
0	To	The Cleanup Of Cr(Vi)	Water Resources	NS. 22,03,003/-	\checkmark	
	18-12-2009	Contaminated Aquifers Using	water Resources			
	10-12-2009	Bio-Remediation				
		DIO-INITIQUIALIOII			l	

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	Water purification using	Department Of	Rs: 10,81,00,000/-		
	То	nanotechnology	Science &			V
	05-01-2017		Technology			
19	23-01-2013	Feasibility study of pulse power	Department Of	Rs: 25,49,000/-		
	То	technique: Alternative	Science &			
	22-07-2015	technology for water treatment	Technology			
20	16-01-2013	Supporting consolidation	Department Of	Rs:57,69,000/-	\checkmark	
	То	replication and up-scaling of	Science &		V	
	30-11-2016	sustainable wastewater	Technology			
		treatment and reuse				
21	28-03-2013	Building an International	Department Of	Rs: 5,33,74,400/-		
	То	research network on	Science &			V
	30-09-2016	sustainability to enhance	Technology			
		strategic knowledge				
22	25-07-2013	Sustainable decentralized waste	Department Of	Rs: 44,38,800/-	\checkmark	
	То	management in urban	Science &		V	
	24-07-2016	residential areas	Technology			
23	19-11-2013	Fast sampling analyses for	Indo-German	Rs: 24,28,000/-		
	То	anthropogenic micro pollutants	Center for			V
	30-09-2016	in wet environmental	Sustainability			
		compartments				
24	19-11-2013	Development of sustainable	Indo-German	Rs: 24,97,000/-	\checkmark	
	То	waste management of septage	Center for		V	
	30-09-2016	by composting and minimizing	Sustainability			
		GHG emissions				
25	28-08-2014	Design and development of	Indo-German	Rs: 42,27,060/-		
	То	solar thermal energy system for	Center for			V
	30-09-2016	domestic sewage (Black water)	Sustainability			
		treatment				

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 and	Indo-German	Rs: 80,04,000/-		\checkmark
	То	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/-	~	
	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 To 30-6-2024	Centre for Sustainable Treatment, Reuse and Management for Efficient, Affordable and Synergistic solutions for Water	Department of Science & Technology	Rs: 4,46,56,222/-	✓	
35	23-10-2018 To 30-6-2024	Wastewater Treatment Technologies and sensors (WATER-IC)	Department of Science & Technology	Rs:1,79,14,810/-	~	
36	11-3.2020 To 31-12-2024	Identifying Best Available Technologies for Decentralized Wastewater Treatment and Resource Recovery for India	Department of Science & Technology	Rs:1,64,53,320/-	~	
37	04-02-2021 To 31-12-2026	Water and Sustainability (IOE-COE)	Ministry of Human Resource and Development	Rs:4,64,00,000/-	v	
38	9-3-2020 To 8-3-2023	Modular Lightweight Wastewater Treatment Units made with TRC for Rural and Periurban Dwellings	Indo German Science & Technology Centre	Rs:84,77,000/-		~
39	4-1-2021 To 3-1-2026	International Centre for Clean Water (ICCW)	Science and Engineering Research Board	Rs:20,00,000/-		~
40	1-2-2023 To 31.1.2026	Water and Sustainability (IOE-COE) – Phase II	Ministry of Education	Rs:5,00,00,000/-	v	
41	7-10-2023 To 6-10-2026	School of Sustainability	Ministry of Human Resource and Development	Rs:1,00,00,000/-		v
42	1-7-2023 To 11-4-2026	IITM Zanzibar Campus	Ministry of Human Resource and Development	Rs:5,00,00,000/-		~

43	15-6.2024	Sustainable and Energy Positive	Science and	Rs: 38,10,000/-	./	
	То	Wastewater Management	Engineering		V	
	14-6-2027	Incorporating Circular	Research Board			
		Economy Principles				

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/-	v	
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			
	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 31-3-2025	Water filtration performance of Saint-Gobain Ceramic filters	M/s: Saint - Gobain Research India Limited	Rs: 93,49,482/-	~	
25	1-7-2020 To 30-6-2024	CCRBF - Expansion of the Indo- German Competence Centre for Riverbank Filtration	University of Applied Sciences Dresden	Rs: 7,46,860/-	~	
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 30-4-2025	Investigation of Water Treatment Technology	Toray Industries, Inc, Japan	Rs: 66,82,892 /-	~	

28	22-7-2022 To 31-1-2023 11.10.2022	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 Sampling and Analyses water and	Mahindra World City Developers Limited Madras	Rs:3,50,000/- Rs:3,10,200/-	v	
29	To 31.1.2023	Wastewater samples from TTUF Plant and Lakes	Metropolitan Water Supply and Sewerge Board	KS.5,10,200/-	~	
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 30-6-2024	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	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 in Vallipuram village	IITM Alumni	Rs:5,00,000/-	~	
35	28-3-2023 To 30-9-2023	Provide treatment train for municipal wastewater at ELECTROSTEEL CASTINGS LTD., Srikalahasti, AP	Electrosteel Castings Limited	Rs:4,90,000/-	~	

36	1-5-2023 To 30-4-2024	Performance Evaluation of salt- based Electro chlorination Plant Installed by HYDRAPURE TECHNOLOGIES PVT. LTD.	Hydrapure Technologies Private Limited	Rs:6,00,000/-	~	
37	20-6-2023 To 30-6-2024	Advisory from IIT Madras team for Water Body Rejuvenation in K. Thangamalpuram GP, Vilathikulam Block, Thoothukudi District, TN	HCL Foundation	Rs: 1,99,100	~	
38	2-6-2023 To 31-12-2023	To conduct the water audit and feasibility analyses of recycling and reuse of wastewater generated in the plant.	Strides Pharma Science Limited	Rs:3,30,000	~	
39	22-8-2023 To 29-2.2024	To identify VOC sources in IAL facility and long term ambient VOC study within premises of Indian Additives Limited (IAL), Manali,, Chennai – 600 068	Indian Additives Limited (IAL)	Rs:3,50,000	~	
40	22-5-2023 To 11-1-2027	Sustainable Water Management in Panchayats of Vellore District- Thuthipet Lake	TAFE Foundation	Rs:25,00,000	~	
41	1-9-2023 To 29-2-2024	Sustainable Water Management in Panchayats of Vellore District – Thuthipet Lake	Voltas Limited	Rs:25,00,000	~	
42	1-11-2023 To 30-4-2024	Testing the Performance of Electro-Chlorination based Disinfection Systems	Harambh Chemicals Private Limited	Rs:4,50,000	~	
43	1-12-2023 To 31-6-2026	Development of Clean and Healthy Village through Holistic Waste (Water and Solid) Management: Vallipuram, India	Nanyang Technological University, Singapore	Rs:2,00,00,000	~	

44	21-12-2023 To 31-12-2024	Assessment of Implementation of Single Use Plastics (SUP) ban in the 12 identified Eco-sensitive areas in Tamil Nadu	Tamilnadu Pollution Control Board	Rs:20,97,000	~	
45	1-1-2024 To 30-6-2024	Lab-scale Study of ETP Treated water at ELECTROSTEEL CASTINGS LTD., Srikalahasti, Andhra Pradesh	Electrosteel Castings Limited	Rs: 3,00,000	~	
45	24-1-2024 To 30-6-2024	Evaluating the Suitability of Chilly Spent as A Boiler Fuel	Synthite Industries Private Limited	Rs: 2,50,000	~	
46	1-2-2024 To 30-10-2025	Providing Technical Advisory Services to WATCO by IITM on Water Quality Assurance in all the cities of the state of Odisha.	WATCO Corporation	Rs:1,64,84,600	~	
47	13-2-2024 To 31-8-2024	Preparation of Bacteriological H2S Strips	Greenvironment Innovation and Marketing India Pvt Ltd	Rs:3,00,000	~	
48	15-3-2024 To 14.6-2024	Certification of performance for Bio trickling filter	IEC FABCHEM LIMITED	Rs:2,25,000	~	
49	2-8-2024 To 31-12-2025	Evaluation of the efficacy of remediationof contaminated soil in Hindustan Unilever Limited, Kodaikanal, Tamil Nadu, India	Hindustan Unilever Limited	Rs:65,85,600	~	
50	25.10.2024 To 30.4.2026	Waste Water Management for a clean and healthy village transformation in AnkathattiVillage , Chikballapur Dist, Karnataka	Gramaantara Trust	Rs: 19,57,620	~	
51	15.11.2024 To	Waste Water Management for a clean and healthy village	Amadeus	Rs.80,08,000 /-	~	

	14.11.2025	transformation in Kachahalli Village, Chikballapur Dist, Karnataka	Software Labs India Private Limited			
52	31.1.2025 To 31.7.2025	Performance Evaluation of Pilot Scale Innovative Zero Solid Discharge (ZSD)System	AIC NIFTTEA Incubation Centre for Textiles and Apparels	Rs:3,00,000/-	~	
53	6.2.2025 To 31.1.2026	Prototypes for Humanity 2024 – Award Dr. Deepchandra Joshi	Art Dubai Fair FZ LLC	Rs:8,75,300/-	~	

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	V
	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	V
	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	V
	31-10-2009	in Krishnagiri		
24	22-09-2009	Analysis Of Soil Samples	M/s:Toshiba	
	То		Corporation Power	V
	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	5 1	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	-	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		
	31-10-2013				
49	01-05-2013	Audit of TNWML Operated in	M/s: Industrial		
	То	Gummidipoondi,	Waste		
	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	V	
	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		V
	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	Audit of TNWML Operated in	M/s: Industrial	
	То	Gummidipoondi,	Waste	V
	01-12-2015		Management	
			Association	
63	20-07-2015	Vetting design/drawings and	M/s: Radiance	
	То	issue of stability certificate for	Realty Developers	
	19-10-2015	the project"shine" located at	India Ltd	
		oldmahabalipuram road		
64	28-09-2015	Evaluation of Biosludge	M/s: Arulpuram	
	То	Management through Biobricks	Common Effluent	•
	27-12-2015		Treatment	
			Company Pvt Ltd	
65	12-10-2015	To Evaluate the effectiveness of	M/s: Shriram	
	То	remediation of Chrominum (VI)	Pistons & Rings	•
	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		•
	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	•
	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	
	To	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	V	
	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	V	
	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	V	
	05-10-2018	Petrochemicals Ltd	Ltd		
83	02-04-2018	Evaluation of Sensors &	Greenvironment		
	То	Accuracy of Real Time	Innovation &	V	
	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	
100	То	Corporation, Construction of	City limited	
	31-3-2021	Sewage Treatment Plant		
107	20-2-2020	Characterization of the surface	Chemical	
107	То	water sludge and feeders to the	Industries	V
	19-2-2021	water bodies in and around	Association	
		Ranipet Industrial area		
108	27-4-2020	Vetting of design of iron-arsenic	Hydromaterials	
	То	removal plants to be installed in	Private Limited	V
	26-10-2020	Punjab		
109	01-12-2018	Carrying out Environment Audit	Government of	
	То	for M/S Srides Shasun Ltd,	Puducherry	
	31-3-2021	Kalapet, Pondicherry		V
110	1-1-2021	Vetting of Process design and	Garrison Engineer	
	То	Hydraulic Profiles of 4 proposed	West Jabalpur	V
	31-5-2021	STPs in Jabalpur Cantonment		
		Area		
111	1-5-2021	Vetting of DPR for M/s:	Southern District	
	То	Southern District Textile	Textile Processing	•
	31-10-2021	Processing Cluster Pvt ltd	Cluster Private Limited	
112	28-6-2021	DetailedProject Report (DPR)	Thirumalai	
112	28-0-2021 To	for the Remediation of	Chemicals Limited	\checkmark
	31-12-2021	Contaminated site within the	Chemicals Limited	
	51 12 2021	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	Design and development of	IEC Fabchem	
				V

	То	odour control bio-trickling filter	Limited		
	8-11-2022	for sewage treatment plants			
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	•	
122	12.6.2024 To 30.11.2024	Design Vetting on Process calculation, Hydraulic profiling of 19.49 MLD STP - with SBR Technology at Coimbatore	M/s: Dee Tech projects pvt. Ltd	~	

123	29.7.2024 To 31.12.2024	Design Vetting on Process calculation, Hydraulic profiling of 15.43 MLDSTP - with SBR Technology at Coimbatore	M/s: Dee Tech projects pvt. Ltd	✓	
124	6.1.2025 To 30.6.2025	Vetting the Process Design for the TEL Grey Water to Contact Water Plant Project	Centre for Urbanization Buildings & Environment (CUBE)	~	

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)
- 10. About 30 Training workshops on Community Based Water Quality Monitoring System (Organized for the Community Level Stakeholders of Village Panchayat), Krishnagiri District, Tamilnadu, Sponsored by UNICEF, **2009-2012**.
- **11.** Training Program given for Government Officials in Odisha State towards "Water Quality Monitoring and Management" Sponsored by Government of Odisha, **2024.**
- **12.** Training Program given for Government Officials in Karnataka State towards "Waste Water Treatment System" Sponsored by Government of Karnataka, **2024.**

- 13. Training Program On "Waterbody Rejuvenation: Two-Days Workshop" for Engineers / Managers/ Contractors working on Waterbody Rejuvenation Projects during 1st – 2nd July 2024 in IIT Madras, Sponsored by MoHUA (Ministry of Housing and Urban Affairs, Government of India).
- Dissemination Workshops "Training & Capacity Building on Water Quality Testing & Analysis" for Engineers of WATCO & PHEO in Odisha" during 28th Jan – 3rd Feb 2025 (Online)

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)
- 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, Pondicherry. To assess the ground water contamination caused by Shashun Chemicals, Pondicherry
- 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, Tirupati
- 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.
- 26. An Expert Member in Biotechnology Industry Research Assistance Council (BIRAC) for ARP (Area Review Panel) related to Energy, Environment and Secondary Agriculture.
- 27. A Member in Science and Engineering Research Board (SERB) for Core Research Grant - Extra Mural Research (EMR)
- 28. Providing Technical Advisory Services to WATCO by IITM on Water Quality Assurance in all the cities of the state of Odisha.
- 29. Creation of Management Structure for Hazardous Substances for Ministry of Environment, Forest and Climate Change.
- 30. Expert committee under PHE Sector for used water CPHEEO, Ministry of Housing and Urban Affairs (MoHUA).
- 31. Expert committee member on "Ban on Single use Plastic and Identifying alternate materials" Tamil Nadu Pollution Control Board (TNPCB)

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- 2020)
- 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 Sep 2023)
- 7. Professor In-Charge, (Infrastructure) IIT Madras Zanzibar Campus (Feb 2023 till date)