Technical Meet on "Design, Operational Strategies for Wastewater Treatment & Zero Liquid Discharge (ZLD) Systems"

30–31 July 2026 | Hotel Ramada, Egmore, Chennai

FICCI successfully organised a two-day **Technical Meet on "Design, Operational Strategies for Wastewater Treatment & Zero Liquid Discharge (ZLD) Systems"** on **30–31 July 2026** at **Hotel Ramada, Egmore, Chennai**. The programme brought together regulators, industry experts, technology providers, researchers, environmental professionals and manufacturing industries to deliberate on sustainable wastewater management, Zero Liquid Discharge (ZLD) systems, regulatory developments, and emerging technologies for efficient water reuse and resource recovery. The programme also witnessed the release of the **Knowledge Paper on "Wastewater Management and Zero Liquid Discharge (ZLD) Systems."**

Smt. H. D. Varalaxmi, Scientist 'F' & Regional Director, Central Pollution Control Board (CPCB), Chennai, delivered the inaugural address and highlighted the growing importance of sustainable wastewater management and the adoption of Zero Liquid Discharge technologies to strengthen environmental compliance, promote circular water use, and support responsible industrial growth. **Er. V. Pushpalatha, District Environmental Engineer, Tamil Nadu Pollution Control Board (TNPCB)**, in her keynote address, emphasized the evolving regulatory framework governing wastewater treatment and encouraged industries to adopt advanced treatment technologies for improved environmental performance.

Mr. V. S. Bhaskar, Technical Expert on Wastewater Management & ZLD Systems, IIT Kanpur & FICCI, served as the lead technical expert for the programme, delivering multiple in-depth sessions across both days. He provided comprehensive insights into ESG drivers for ZLD implementation, wastewater treatment unit operations, biological treatment systems, membrane technologies, membrane system design, evaporation technologies, operational troubleshooting, and the application of automation, digital technologies, and AI/ML in ZLD facilities. His practical case studies and technical guidance offered participants a holistic understanding of designing, operating, and optimizing Zero Liquid Discharge systems for improved efficiency and sustainability.

Prof. Indumathi M. Nambi, Professor, Department of Civil Engineering, IIT Madras, delivered a technical session on alternative technologies and application strategies to reduce operational costs in textile industry ZLD systems. She highlighted innovative engineering approaches and cost-optimization strategies that can improve the efficiency, sustainability, and long-term viability of Zero Liquid Discharge implementation in the textile sector.

The programme also featured technical presentations by experts from CSIR–Central Leather Research Institute (CLRI) and leading technology companies including SWAN Environmental Pvt. Ltd., Spray Engineering Devices

Ltd., Senkar Technologies India Pvt. Ltd., and Centpro Engineering Pvt. Ltd. Sessions covered wastewater treatment technologies, membrane systems, thermal ZLD, water quality monitoring, water neutrality, energy conservation, and innovative industrial solutions, providing participants with practical knowledge on addressing operational challenges and enhancing resource efficiency. The programme concluded with certificate distribution and an interactive feedback session, reaffirming the importance of knowledge sharing and industry collaboration in advancing sustainable wastewater management practices.

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