

About the CoE

NMCG-TERI Centre of Excellence on Water Reuse (NTCoE) in TERI has been established by the National Mission for Clean Ganga (NMCG), Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti, Govt. of India. This CoE is the first of its kind in the Country that matches well with the activities envisaged under the Ganga Knowledge Centre (GKC) of the 'Namami Gange Program'.

It is primarily a technology forum, which aims to bring various stakeholders to a common platform to design and foster research and innovation, including the identification of knowledge gaps for research and the need for new ideas, supporting targeted research, and spurring and nurturing needed innovation for low-cost, effective and integrated wastewater treatment technologies, which could bridge the current treatment gaps, boost treatment efficiency, augment capacities and provide safe treated water for reuse. Also, it aims to raise training standards, address skill gaps and align training & research with industry needs.

Participation of various stakeholders under different categories is welcome! Let us all work towards a water-secure India and the World!

Vision

NMCG-TERI Centre of Excellence on Water Reuse (NTCoE) envisions to become a Globally recognized Centre in Technology domain for wastewater treatment, water reuse and circular economy. It aims to achieve various UN SDG Goals and contribute in Nation building through flagship programs of the Government of India like the 'Namami Gange', 'Swachh Bharat Mission', 'Smart City Mission', 'Water Vision@2047', 'Make in India', 'Self-Reliant India' and others.

Mission

The Mission of the Centre is to provide a common platform to various stakeholders like the policy makers, regulatory authorities, funding & financial Institutions, Philanthropic Organizations, Investors, R&D, academia, knowledge partners, organizations engaged in training and capacity building, Consultants & Consultancy firms, Companies dealing in wastewater treatment and water reuse business, Urban Local Bodies (ULBs), Municipal Corporations/ Jal Boards and various Governments and Ministries involved in water, sanitation, urban infrastructure, Smart Cities, wastewater treatment, water reuse and circular economy.



Contributions in National Missions



"When treated water is reused, fresh water is conserved, it benefits the entire ecosystem. That's why water treatment, water recycling is essential."

- **Shri. Narendra Modi, Prime Minister of India**
(Water Vision@2047, January 2023)

"The widespread adoption of reuse of treated wastewater should be taken on priority."

- **Shri C. R. Paatil, Hon'ble Minister of Jal Shakti**
(12th Empowered Task Force (ETF) on Ganga Rejuvenation, Sept. 2024.)

VISION



National Mission for Clean Ganga

Developing integrated technological solutions to achieve "Nirmal Dhara" (Unpolluted Flow) objective through point source pollution abatement strategies.



Swachh Bharat Mission-Urban 2.0

To work on water reuse policies with States. Organize training and capacity building programs for ULBs on solid and liquid waste management.



Atal Mission For Rejuvenation And Urban Transformation

To contribute in Technology Sub-Mission to encourage newer technology options to augment capacities and enhance recycle/ reuse of treated water.



Smart City Missions

Encourage decentralized wastewater treatment and reuse using micro-STPs across Construction and Housing sectors.



Water Vision @ 2047

Industries to be encouraged to adopt integrated, sustainable and affordable technological solutions to achieve Zero Liquid Discharge (ZLD).



ARTH Ganga

To encourage Circular Economy through reuse of sludge and wastewater for irrigation, industries and work with ULBs to explore revenue generation.



Self Reliant India

To encourage 'Make In India' technologies for achieving Water Security and UN SDG 6.

Key Messages from Steering Committee Members



Mr. Rajeev Kumar Mital,
DG, NMCG

NMCG is committed to support 'Made in India' technologies like tadox® for wastewater treatment, our vision is to make "Atmanirbhar Bharat" and to meet the objectives of 'Nirmal Dhara' of the Namami Gange Programme
- **Chairman, NTCoEWR**



Dr. Vibha Dhawan,
DG, TERI

TERI has been actively working in this domain and is committed to provide all possible support to members and realize the vision & mission of this Centre of Excellence on water reuse
- **Vice Chairman, NTCoEWR**



Mr. Praveen Gupta
Member (Thermal)
Central Electricity Authority (CEA)

The Ministry has mandated that all thermal power plants must utilize treated sewage water from STPs located within a 50 km radius. The Centre is expected to play a crucial role in addressing the challenges by implementing innovative technologies
- **Member, NTCoEWR**



Mr. Yugal Joshi,
Programme Director, Water & Sanitation, NITI Aayog, GoI

Technology such as TADOX is a breakthrough. NMCG-TERI Centre of Excellence may continue to develop such technologies in the future as well.
- **Member, NTCoEWR**



Dr. V.K. Chaurasia,
Adviser-in-Charge (PHEE), MoHUA, GoI

Setting up of a dedicated Centre of Excellence to promote circularity in wastewater is a timely action taken by Namami Gange and TERI by NMCG.
- **Member, NTCoEWR**



Mr. A K Srivastava,
ED (Technical) NMCG

This CoE will foster partnerships between stakeholders involved in the sector, in order to effectively address the issue of wastewater and encourage its reuse.
- **Member, NTCoEWR**



Dr. Pragada Sarath Chandra,
Associate Fellow, TERI

This CoE on water reuse is an earnest effort for all stakeholders to come together, share ideas and implement solutions and contribute in Nation Building and achieve UN SDG 6 goals.
- **Member Secretary, NTCoEWR**

For Further Details Please Contact

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<https://www.linkedin.com/company/nmcg-teri-centre-of-excellence-on-water-reuse/about/>



Website: <http://nmcgtericoe-wr.in>



NMCG-TERI CENTRE OF EXCELLENCE ON WATER REUSE

Established by
National Mission for Clean Ganga (NMCG)
Department of Water Resources River Development and Ganga Rejuvenation
Ministry of Jal Shakti, Govt. of India

Work done from NTCoEWR

Technology Development & Implementation	<ul style="list-style-type: none"> TADOX® technology developed from NTCoE was demonstrated at 20 KLD capacity in a Textile CETP, Kanpur under Namami Gange National Mission with funding support from NMCG, Ministry of Jal Shakti, Govt. of India
Technology Commercialization	<ul style="list-style-type: none"> TADOX® technology licensed for commercialization to M/s Dew Projects and Chemicals Pvt Ltd., Noida in March 2023 TADOX® technology licensed for commercialization to Ion Exchange (India) Ltd., Mumbai in February 2024 TADOX® is a registered product in GRIHA catalogue
Sponsored Projects	<ul style="list-style-type: none"> World Bank funded Project for Bangalore Water Supply & Sewerage Board (BWSSB) on Advanced Technology Options to achieve Decarbonization and Circular Economy in Wastewater sector Tetra Tech funded USEPA Project for GHG Emission Inventorization in Wastewater Sector in India
Consultancy Projects	<ul style="list-style-type: none"> Study on Yamuna Frothing in Delhi Study on Microplastics in Yamuna River and Ground Water in Delhi Plan for Haryana Water Resources Authority (HWRA) Bandhwari Landfill Leachate Treatment Plan for HSPCB/Municipal Corporation of Gurgaon (MCG)
Industrial Research	<ul style="list-style-type: none"> Industry Sponsored Projects for TADOX® technology assessment for wastewater treatment Adequacy study of CETP/ETP/ZLD plants to enhance water reuse efficiency
Policy & Research Publication	<ul style="list-style-type: none"> Policy Brief On “Integration of TADOX® technology to achieve Net Zero in Textile Wastewater treatment: Policy Recommendations based on Pilot study in a CETP” Policy Brief on “TADOX® Technology to treat Textile and Dyeing Wastewater, achieve ZLD and enhance water reuse: R&D - Based Policy Recommendations” Peer reviewed International Publications

Knowledge Products from NTCoEWR

