

## 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**  
(12<sup>th</sup> Empowered Task Force (ETF) on Ganga Rejuvenation, Sept. 2024.)



### 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 tadax® for wastewater treatment, our vision is to make "Atmanirbhar Bharat" and to meet the objectives of 'Nirmal Dhara' of the Namami Gange Programme

- **Chairman, NTCoE**



**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, NTCoE**



**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, NTCoE**



**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, NTCoE**



**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, NTCoE**



**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, NTCoE**



**Dr. Nupur Bahadur,**  
Associate  
Director, 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, NTCoE**

### 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

## Membership Categories

Membership Categories	Government	Industry & Industrial Associations
Government	Central and State Govt. Organizations; MoEFCC, CPCB, SPCBs, NITI Aayog, ULBs, Jal Boards etc. and International Government Organizations; Embassies	<ul style="list-style-type: none"> <li>Meeting objectives of National Missions and Programs.</li> <li>CoE support in providing training &amp; capacity building initiatives, stake holder discussions for the preparation of knowledge documents such as Water Reuse Policies for various States from time to time.</li> <li>Help Embassies in facilitating collaborations amongst various stakeholders in India e.g. exploring Indian market for Companies in technology domains, joint R&amp;D Projects with prestigious Universities and Organizations etc.</li> </ul>
Industry & Industrial Associations	Private or Public listed company in India, PSUs, Industrial associations like FICCI, CII, ASSOCHAM, BDMAI, Textile Associations, Tannery Associations etc.	<ul style="list-style-type: none"> <li>Companies/ Start Ups / Innovation Challenge Winners gets CoE Platform to showcase newer products/ services/ catalogues etc.</li> <li>Complimentary technologies gets a chance for pilot and successfully piloted technologies may be commercialized.</li> <li>Member companies of Industrial Associations may showcase best practices &amp; be part of the Compendium of Best-Case Studies in the priority areas.</li> </ul>
Funding, Philanthropic & Civil Society Organizations	Bilateral & Multilateral Funding Organizations, Philanthropic Organizations/ Trusts/ Foundations, CSOs, NGOs, etc.	<ul style="list-style-type: none"> <li>Best utilization of funds through CSR and CER initiatives with Consultancy and Technology demonstration Projects.</li> <li>Foster collaboration &amp; partnership at the National &amp; International level for collective attainment of SDG 6 Goals.</li> </ul>
Knowledge Partners	University, R&D Organization(s), Water Associations, Retired Professionals, Consultants etc.	<ul style="list-style-type: none"> <li>Suitable opportunities for Industrial visits, site visits, Internships/ Dissertations/ Joint Ph. D. to Research Scholars of registered organizations.</li> <li>Institutional support to consultants/retired professionals in their projects and participation as experts/ consultants in CoE projects.</li> </ul>

## Membership Engagement

STANDARD	PREMIUM	ELITE
<b>Benefits</b> <ul style="list-style-type: none"> <li>Organization's logo on NTCoE website, events, newsletters etc. for better brand outreach</li> <li>Subscription to NTCoE Newsletter</li> <li>Access to publication &amp; reports from CoE</li> <li>Institutional support to consultants/retired professionals in their projects</li> </ul>	<b>Benefits +</b> <ul style="list-style-type: none"> <li>Member's Directory (both online &amp; hard bound) displaying products, services &amp; catalogue to generate business leads</li> <li>Platform to interact with other Members, Institutions, Government &amp; International Organizations for exploring collaborations</li> <li>Participation as Experts/ Consultants in CoE projects</li> <li>Suitable opportunities for Industrial &amp; Site visits, paid Internships/ Dissertations/ Joint Ph. D. to research scholars of members of R&amp;D Organizations and Universities</li> </ul>	<b>Benefits ++</b> <ul style="list-style-type: none"> <li>Membership in the Steering Committee of the NTCoE</li> <li>Membership in the Executive cum Technical Committee of the NTCoE</li> <li>Membership in Research &amp; Advisory Committees of the NTCoE</li> <li>Complimentary Participation &amp; Speaking opportunities for the top management in the events like the Seminars/ Webinars, Training Programs, Conferences, and Meetings of the CoE</li> <li>Complimentary invitation for the top management in TERI's annual flagship programs like the World Sustainable Development Summit (WSDS)</li> </ul>

For more information on membership engagement and fee structure, please contact us.



## Work done from NTCoE

<b>Technology Development &amp; Implementation</b>	<ul style="list-style-type: none"> <li>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</li> </ul>
<b>Technology Commercialization</b>	<ul style="list-style-type: none"> <li>TADOX® technology licensed for commercialization to M/s Dew Projects and Chemicals Pvt Ltd., Noida in March 2023</li> <li>TADOX® technology licensed for commercialization to Ion Exchange (India) Ltd., Mumbai in February 2024</li> <li>TADOX® video link: <a href="https://www.youtube.com/watch?v=tCt5rxC7eik">https://www.youtube.com/watch?v=tCt5rxC7eik</a></li> </ul>
<b>Sponsored Projects</b>	<ul style="list-style-type: none"> <li>World Bank funded Project for Bangalore Water Supply &amp; Sewerage Board (BWSSB) on Advanced Technology Options to achieve Decarbonization and Circular Economy in Wastewater sector</li> <li>Tetra Tech funded USEPA Project for GHG Emission Inventorization in Wastewater Sector in India</li> </ul>
<b>Consultancy Projects</b>	<ul style="list-style-type: none"> <li>Study on Yamuna Frothing in Delhi</li> <li>Study on Microplastics in Yamuna River and Ground Water in Delhi</li> <li>Plan for Haryana Water Resources Authority (HWRA)</li> <li>Bandhwari Landfill Leachate Treatment Plan for HSPCB/Municipal Corporation of Gurgaon (MCG)</li> </ul>
<b>Industrial Research</b>	<ul style="list-style-type: none"> <li>Industry Sponsored Projects for TADOX® technology assessment for wastewater treatment</li> <li>Adequacy study of CETP/ETP/ZLD plants to enhance water reuse efficiency</li> </ul>
<b>Policy &amp; Research Publication</b>	<ul style="list-style-type: none"> <li>Policy Brief On "Integration of TADOX® technology to achieve Net Zero in Textile Wastewater treatment: Policy Recommendations based on Pilot study in a CETP"</li> <li>Policy Brief on "TADOX® Technology to treat Textile and Dyeing Wastewater, achieve ZLD and enhance water reuse: R&amp;D - Based Policy Recommendations"</li> <li>Peer reviewed International Publications</li> </ul>