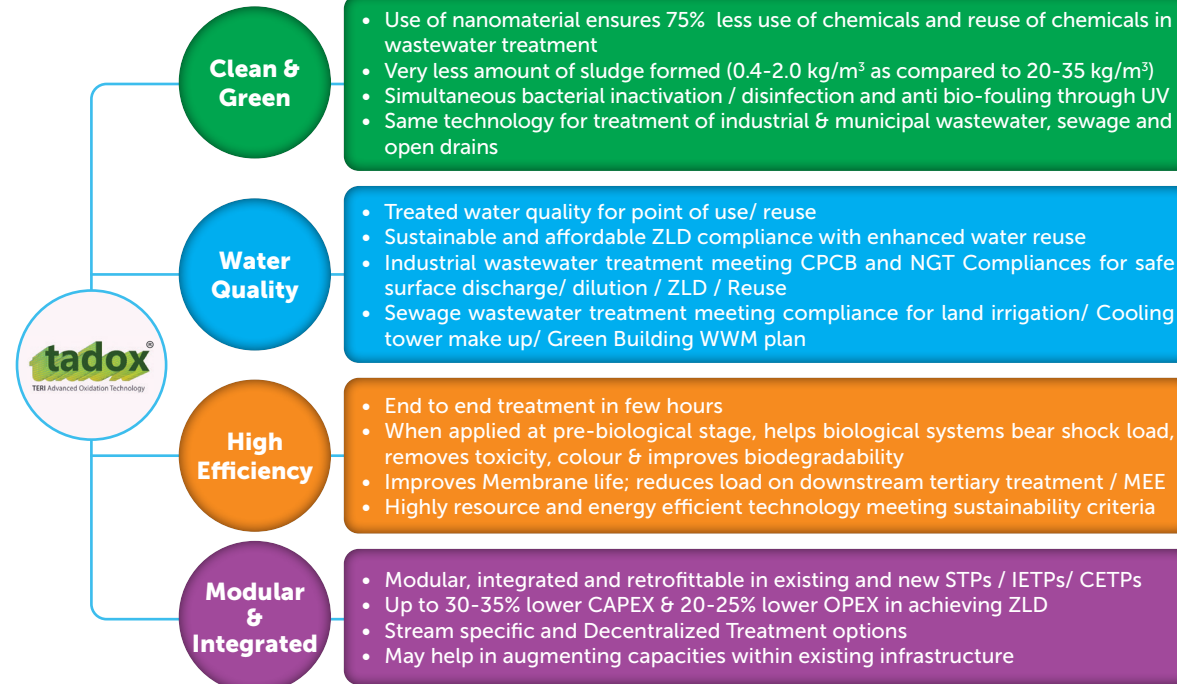


OVERALL BENEFITS



Design & Manufacturing Technologies for 'Make in India'
7th Dec 2015
Ministry of Science & Technology, Govt. of India



STE Water Award Technology Innovation
22nd Oct 2019
STE-Save the Environment, Society for Research & Awareness, Kolkata



Aqua Foundation Excellence Technology Development
30th Oct 2019
Aqua Foundation, New Delhi & Ministry of Jal Shakti, Govt. of India



FICCI Water Award Innovation in Water Technology
23rd Nov 2022
Federation of Indian Chambers of Commerce & Industry Water Mission

About Us

TERI has developed a wastewater treatment technology called TERI Advanced Oxidation Technology (tadox[®]) which could be integrated in current systems to achieve adequate treatment of municipal, sewage, open drains, landfill leachate and industrial wastewater, help achieve ZLD in a much affordable and sustainable manner and enhance treated water reuse (<https://youtu.be/tCt5rxC7eik>). tadox[®] involves Advanced Oxidation Photocatalysis (AOP), which in-situ generates hydroxyl radicals, leading to oxidative degradation and mineralization of targeted pollutants. It is under TERI's patents and registered TM and has been developed through the funding support of DST-WTI, Water Mission, Ministry of Science & Technology, Govt. of India and further the technology has been implemented under 'Namami Gange' National Mission for River Ganga rejuvenation. The following installations have taken place. The NMCG-TERI Center of Excellence on water reuse (<https://www.nmcgtericoe-wr.in/>) is established by National Mission of Clean Ganga, Ministry of Jal Shakti, Govt. of India.

The technology is commercialized and ready for field implementation through our Licensee Partners.



<https://ionexchange.com/>



<https://www.dewindia.com/>



10 KLD tadox[®] WWT plant treating mixed sewage in TERI, Gurugram since Aug. 2020; Visit by Dy CM Haryana



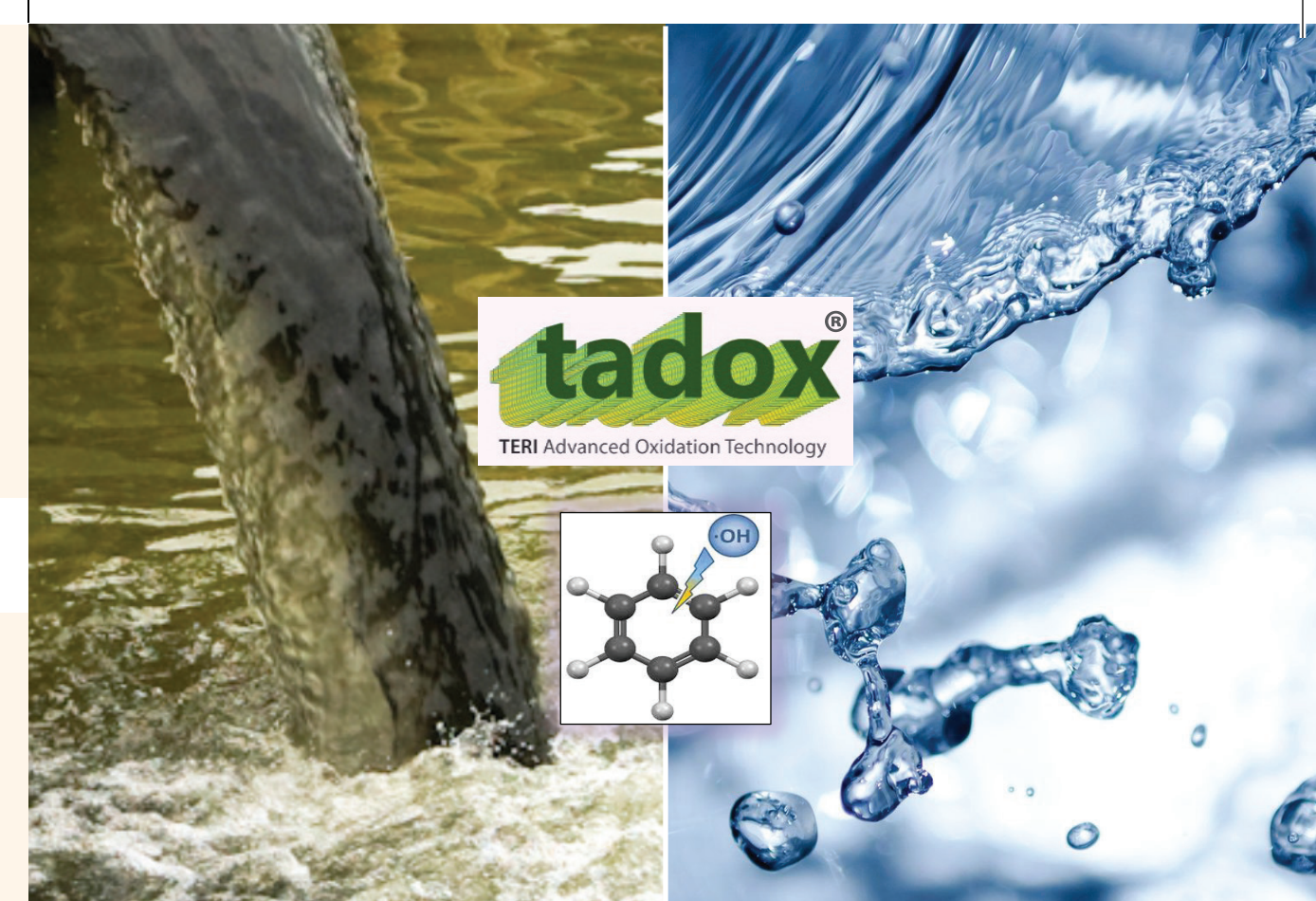
20 KLD tadox[®] WWT plant in Textile CETP, Kanpur under 'Namami Gange' Program; Inauguration by DG NMCG.

FOR FURTHER DETAILS PLEASE CONTACT

Dr. (Mrs.) Nupur Bahadur
Associate Director,
NMCG-TERI Centre of Excellence on Water Reuse
Environment & Waste Management Division
The Energy and Resources Institute (TERI), Lodhi Road, New Delhi-110003
Email: nupur.bahadur@teri.res.in | website: <https://www.teriin.org/waste>
Tel: +91-11-2468 2100 or +91-11-2468 2111 • Fax: +91-11-2468 2144 or +91-11-2468 2145



<http://nmcgtericoe-wr.in>



TADOX[®] TECHNOLOGY



ENERGY



AGRICULTURE



ENVIRONMENT



HABITAT



RESOURCE SECURITY



CLIMATE

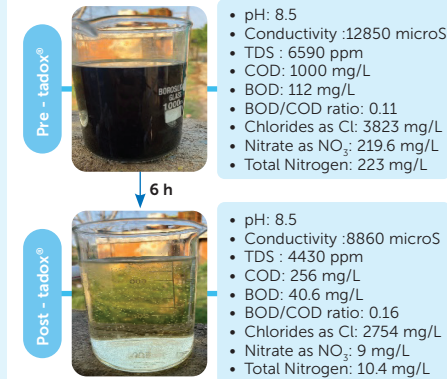


HEALTH & NUTRITION

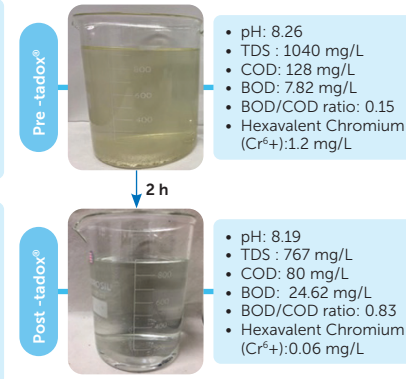
Industrial Wastewater Treatment

(Uttar Pradesh & Uttarakhand)

Textile CETP, Kanpur, 20KLD Plant

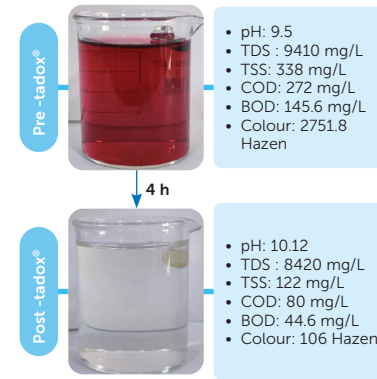


Tannery ETP, Kanpur

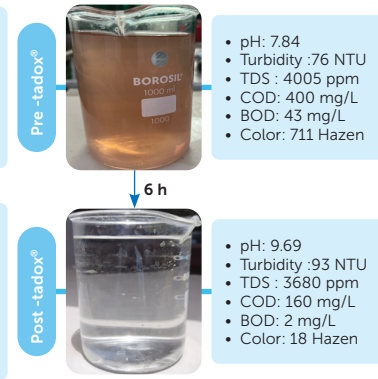


Punjab, Haryana, Andhra Pradesh & Kerala

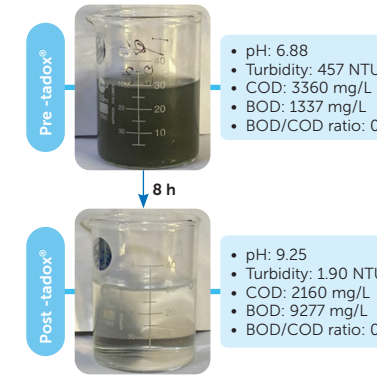
Textile ETP, Ludhiana



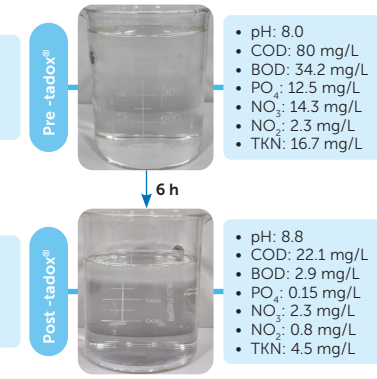
Petrochemical Industry, Panipat 10KLD Plant



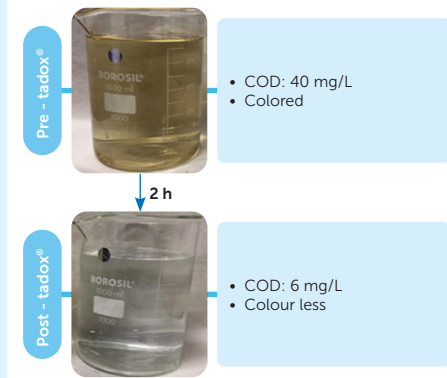
Chemical Manufacturing, Raigad



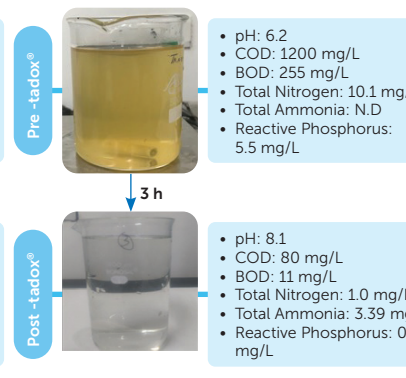
Electronics Manufacturing, Hosur



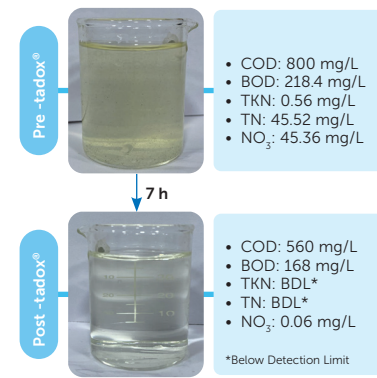
Slaughter House, Agra



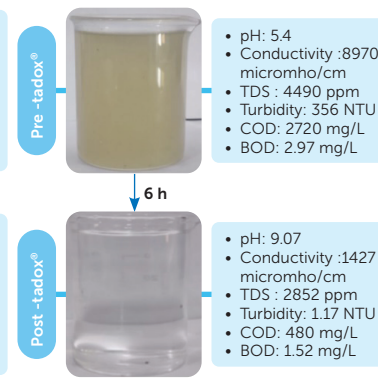
Pharmaceutical Industry, Rishikesh



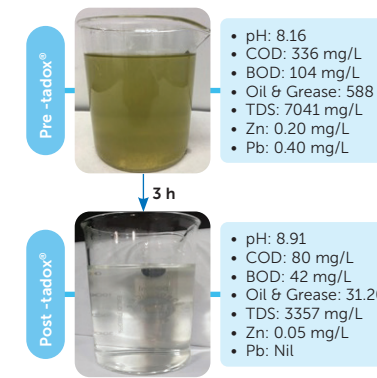
Chemical Manufacturing ETP, Nellore



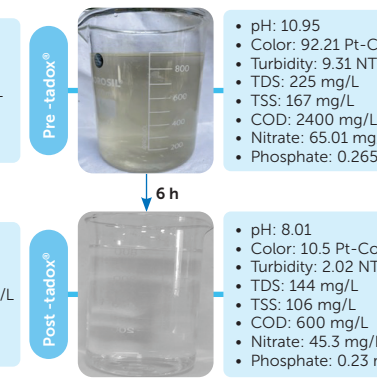
Chemical Manufacturing ETP, Kochi



Oil & Gas Industry, Ahmedabad



MEE Condensate, Bharuch



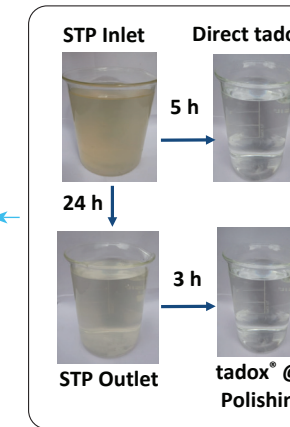
Municipal Wastewater, Sewage and Open Drain Treatment

Delhi & Haryana

Current Conventional Treatment

Parameters	STP Inlet	STP Outlet
pH	7.2	7.2
Colour, (Pt-CO) (CU)	292.4	116.4
TDS, mg/L	17.51	368.0
COD, mg/L	352.00	88.00
BOD, mg/L	115.00	32.00
PO ₄ , mg/L	4.45	0.50
NO ₂ , mg/L	0.11	0.19
NH ₄ , mg/L	7.20	3.20
E Coli, MPN/100ml	1.32x10 ⁴	6.0x10 ²
Total Coli, MPN/100ml	8.9x10 ⁴	2.3x10 ⁵

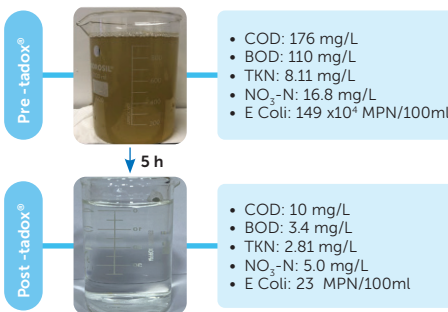
Municipal STP, Delhi



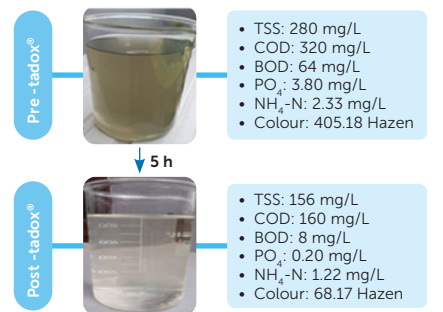
tadox® Treatment

Parameters	Direct TADOX	TADOX @ Polishing
pH	8.0	8.8
Colour, (Pt-CO) (CU)	1.4	<1
TDS, mg/L	91.3	119.0
COD, mg/L	21.50	24.0
BOD, mg/L	<2	<2
PO ₄ , mg/L	0.08	0.03
NO ₂ , mg/L	0.75	0.11
NH ₄ , mg/L	3.40	2.10
E Coli, MPN/100ml	ND	ND
Total Coli, MPN/100ml	3	1

STP Inlet Sewage, Gurugram



Gochi Drain, Faridabad



tadox® is registered in GRIHA product catalogue for wastewater management in green buildings.



*Wastewater quality parameters analyzed at a National Accreditation Board for Testing and Calibration Laboratory (NABL), Delhi as per ISO/IEC 17025:2005.



ENERGY



AGRICULTURE



ENVIRONMENT



HABITAT



RESOURCE SECURITY



CLIMATE



HEALTH & NUTRITION



ENERGY



AGRICULTURE



ENVIRONMENT



HABITAT



RESOURCE SECURITY



CLIMATE



HEALTH & NUTRITION



ENERGY



AGRICULTURE



ENVIRONMENT



HABITAT



RESOURCE SECURITY



CLIMATE



HEALTH & NUTRITION