



WTE Infra Projects Pvt. Ltd.

For Water & Waste Water Treatment System





About:

Founded in 2007, Water Treatment Equipments now known as 'WTE Infra Projects Pvt. Ltd.' we are leading manufacturer and supplier of a wide range of engineered water and waste water treatment equipment and Systems. We operate on world class standards for our production, installation and delivery.

We are ISO 9001:2015 certified company deals with the manufactures of Filtration Plant, Clarifier, Tube Settler System, Reverse Osmosis(RO) Plant, Ultra-filtration(UF) Plants, Softening Plant, Demineralization(DM)Plant, Sewage Treatment Plants(STP), Grey Water Treatment, Effluent Treatment Plants(ETP), Condensate Polishing Unit(CPU), Zero Liquid Discharge(ZLD), Leachate Treatment Plant(LTP), Online Monitoring System, Oil Water System(OWS) and etc.

We focus on technological advancements and highest standards of quality, which has enabled us to become a privileged supplier globally. Our products are being exported regularly to **Sri Lanka, Ethiopia, Nigeria, Bangladesh, Afghanistan, Indonesia, Malawi, Uganda, Kenya, Philippines, Zambia and Tanzania, Guinea, Togo, Saudi Arabia, Singapore and etc...**

From Designing, manufacturing supply to installation and services WTE Infra Projects Pvt. Ltd. is your One Stop Shop for all Water & Wastewater Requirements.

Mission:

Understanding Customer Needs ⇌ Innovative Eco-friendly Solutions

Our mission is to provide cost-effective solutions to our customers by eco-friendly methods emerging with advance techniques that maximize overall system effectiveness through our unique and proven advanced technology.

WTE Infra Projects Pvt. Ltd. is spread over 40,000 sq. ft. of land at Chakan MIDC Phase II. The manufacturing facility is well equipped with the latest technology and integrated machineries. This is single step to achieve our Mission; 'To Produce High Quality, World Class Products keeping delivery commitments.'

Vision:

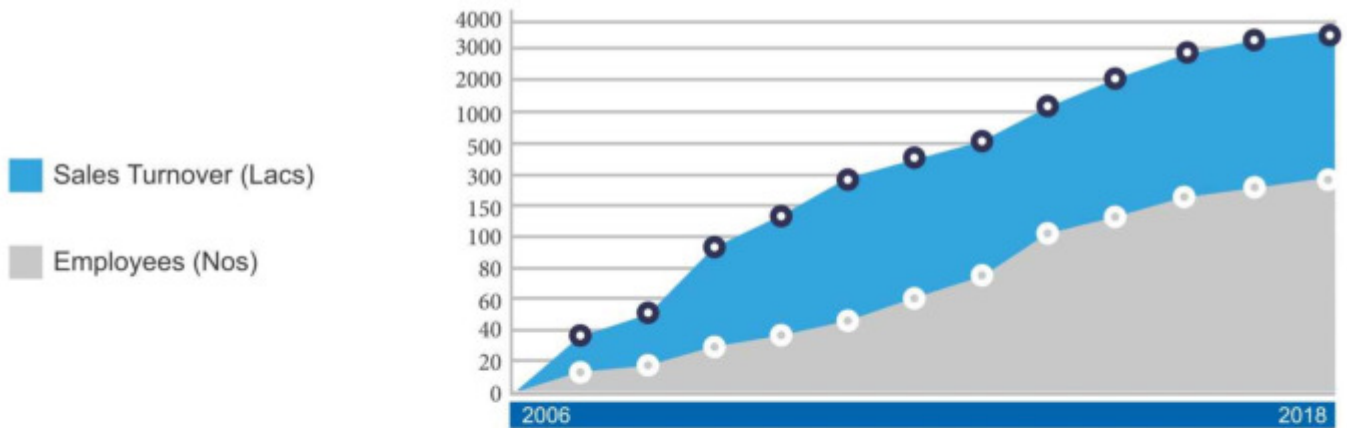
Total Water and Wastewater Solutions

Emerging as most potent and reliable company of integrated water and wastewater solutions our vision 'creating a vivid, optimistic future, together' is a message to our employees, clients and all industries that we are more than a premises, collection of projects and contracts.

Advantages:

WTE Infra Projects Pvt. Ltd. believes on one-time delivery and commitment. To ensure the same, we work with skilled man power and operate from an in-house manufacturing unit that works with the assistance of a dedicated projects and service team.

- ▶ Our products are easy to install, operate and maintain
- ▶ Timely deliveries
- ▶ Perfect and optimum solution
- ▶ Low power consumption
- ▶ Less civil work and low CAPEX.



Key Strengths:

- ▶ Technical Expertise
- ▶ Quality Products
- ▶ Innovative edge towards changing environment
- ▶ Cost effective
- ▶ Complete waste management solution
- ▶ Competent team
- ▶ 24x7 technical team service
- ▶ Reliable services

Our Team



Clarifier System



Clarifiers are extensively used for continuous mechanical removal of settleable solids from water and waste water. This Assortment is design to meet Clients requirement and available in different specifications as per the application.

Technologies:

- ▶ High Rate Solid Contact Clarifer – HRSCC
- ▶ Tube Settler-TSU
- ▶ Clariflocculator
- ▶ Lamella Settler

Salient Features:

- ▶ To Treat high turbid water

Application:

- ▶ Removal of Colloidal Silica
- ▶ Primary treatment of waste water



Filtration Plant



We offer series of filters like Vertical & Horizontal Pressure Sand Filter, Activate Carbon Filter, Dual Media Filter, Iron Removal Filter in different sizes at a low cost, reliable and efficient way to filter impure water. It consists of different grades of sand, Activated Carbon, Anthracite, MnO₂ as per application. This plant Removal of suspended solids and turbidity, color and free chlorine in less quantity

Salient Features :

- ▶ These filters are major part of treatment system it works as pre or post treatment systems in raw water treatment plants or waste water treatment plants respectively.
- ▶ We have our own designing and manufacturing unit for vessels available in MSEP/MSRL/FRP/SS.

Applications :

- ▶ Tertiary treatment for STP and ETP, usage in WTP.



Water Softener Plant



Water softening is the reduction of the concentration of Calcium, Magnesium, and other ions in hard water. We offer highly durable Water Softening Plant that is used to exchange ions through resin bed in Sodium form and providing suitable soft water. The resin bed is regenerated using common salt solution for regaining its ability after a certain period.

Salient Features :

- ▶ We have our own design and manufacturing unit for softening vessels available in MSEP/MSFRP/FRP /MSRL.
- ▶ Cost effective and easy maintenance.

Applications :

- ▶ Cooling Tower make up
- ▶ Utility/Domestic purpose
- ▶ Low Pressure Boiler



Ultra Filtration Plant



Ultra Filtration is a membrane based technology which is used for removal of suspended particles up to 0.01 micron size which results in SDI reduction. These membranes are available in 10 Kilo Daltons & 100 Kilo Daltons molecular weight cut off configuration as per the process requirements.

Salient Features :

- ▶ The UF Plant is simple to operate, easy to maintain, automatic operation, compact and has adequate safety interlocks.
- ▶ Pretreatment to RO
- ▶ Post treatment to waste water Treatment Plants- TSS/Turbidity Reduction.

Applications :

- ▶ Industries such as Chemical and Pharmaceutical manu Facturing, Food and Beverage processing and waste water treatment, employ ultra filtration in order to add values to later products.





Reverse Osmosis system are designed and manufactured to remove total dissolve solids (TDS) from raw water. We are using advance membrane technology in our RO's to allow water to pass through a semipermeable membrane.

Salient Features :

- ▶ Low maintenance, User Friendly & easy to install
- ▶ PLC based automatic operation

Applications :

- ▶ Industrial Application
- ▶ Drinking purpose-Commercial & Residential



Demineralisation Plant



Demineralization is the process of removing mineral salts from water by using the ion exchange process. The DM plant comprises of strong acid cation, strong base anion & mixed bed unit. This results in less than 15 micro Siemen/cm conductivity.

Salient Features :

- ▶ User friendly, easy operation
- ▶ Low Power consumption

Applications :

- ▶ Boiler feed water in boilers ranging from low pressure to supercritical pressure.
- ▶ Industries such as Sugar, Power, Battery, Electroplating, Fertilizers, Pharmaceuticals, etc.





Sewage Treatment Plant

Sewage treatment is the process of removing contaminants from wastewater, primarily from household sewage. It includes physical, chemical, and biological processes to produce environmentally safe treated waste water & to reduce fresh water consumption

Technologies involved are-

- ▶ Activated Sludge Process – ASP
- ▶ Sequential Batch Reactor- SBR
- ▶ MBBR/MMBR/FMBR/FAB
- ▶ Membrane Bioreactor – MBR
- ▶ Submerged Aerobic Fixed Film Reactor- SAFF

Salient Features:

- ▶ Recycle, Reuse & Reduce
- ▶ User friendly, easy operation
- ▶ Packaged & Portable type
- ▶ High quality treated water
- ▶ Less Foot Print area





Effluent Treatment Plant

We are having promising technologies to treat wastewater generated from various industries containing highly organic, inorganic load, oil & grease, heavy metals and suspended solids. Based on the effluent parameters as per nature & compositions, we design steady state model to overcome environmental issues related to industry.

The processes involved for the treatment of various effluents are anaerobic (UASBR, Anaerobic filter, biodigester), aerobic (diffused aeration), hybrid (anaerobic+aerobic).

Our strength is to achieve the permissible limits of resultant treated water as per Government norms.

Salient Features :

- ▶ Manual, Semi-Automatic & Fully Automatic.
- ▶ Type- Batch & Continuous.
- ▶ Silent in operation.

Applications :

- ▶ Sugar, Pharmaceutical, Electroplating
- ▶ Dairies, Paper & Pulp, Automobile
- ▶ Food processing, Chemical, Paint



Condensate Polishing Unit



We provide CPU to treat excess process condensate generated from sugar allied industry using various technologies. Treated condensate can be recycled to process which saves fresh water intake and ultimately saving utility cost. Our CPU unit are promising in terms of end result. CPU design are compact, easy to operate and cost effective.

Uses of CPU Treated Water

- ▶ Cooling tower make up water for distillery and co-gen
- ▶ Raw water reservoir make up
- ▶ Fermentation process in distilleries with suitable pretreatment
- ▶ Co-Gen DM inlet with suitable pre treatment
- ▶ Use as a cooling media for mechanical parts of mills & turbines
- ▶ Other non-potable purpose

Salient Features:

- ▶ Based on anaerobic and aerobic process
- ▶ Odorless treatment
- ▶ 100% treated water recycled & maintain



Leachate Treatment Plant



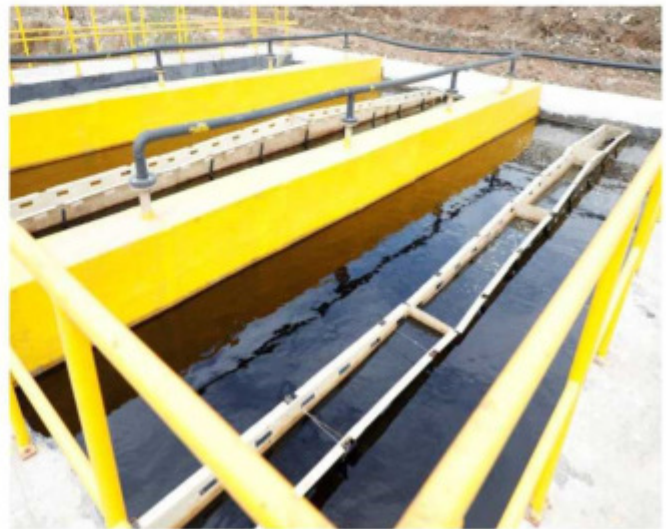
Leachate is the liquid that drains or 'leaches' from a landfill or garbage Depot. It varies widely in composition regarding the age of the landfill and the type of waste that the garbage contains. It usually contains both dissolved and suspended material which pollutes the environment.

Necessity of Leachate Treatment

Leachate, which originates from solid waste, is polluted and must be treated before being released again in the natural resources to prevent the odor and also to prevent surface and ground water pollution. Treated water can be used for gardening, sprinkling on garbage etc.

Applications :

- ▶ Based on anaerobic and aerobic process
- ▶ Finest outlet water quality
- ▶ Easy to handle organic varying load
- ▶ Very easy to operate and maintain



Zero Liquid Discharge (ZLD)



Zero liquid discharge is a process that is beneficial to industrial and municipal organizations as well as the environment because it saves money and no effluent, or discharge, is left over. ZLD systems employ the most advanced wastewater treatment technologies to purify and recycle virtually all of the wastewater produced. Also Zero liquid discharge technologies help plants meet discharge and water reuse requirements, enabling businesses to:

- ▶ Meet stringent cooling tower blow down discharge regulations.
- ▶ Treat and recover valuable products from waste streams.
- ▶ Better management of produced water.
- ▶ A Zero liquid discharge facility (ZLD) is an industrial plant without discharge of waste waters. Target ZLD is normally reached by
- ▶ Waste water recovery
- ▶ Evaporating reject water in multiple effect evaporator, crystallizers and ATFD.

Salient Features :

- ▶ High efficiency, Sturdy design, Less maintenance
- ▶ Quick to install
- ▶ Compact Design
- ▶ Highest Steam Economy

Applications :

- ▶ Textile Industries, Pharmaceutical Industries
- ▶ Distilleries, Chemical Industries



In-house fabrication



WTE Manufacturers Pressure Vessels, Tanks, Filters, Filter Housing, Clarifiers, Flocculators, HRSCC, Tube Settlers, Lamella Clarifiers, Agitators, Skid Assemblies, Electrical Control Panels & variety of Industrial general fabricated equipment. We have facility for quality inspection. CAD CAM Process for Detailed Engineering Process.

Engineering:

WTE provides complete Engineering & Design assistance for Pressure Vessels & Tanks in accordance with IS2825, API 9001:2015 & ASME procedures. Engineering reviews & customer approvals ensure all client & code requirements are satisfied. WTE supports in detail engineering that is value added service that will reduce customers in house engineering costs.

Quality Control:

WTE ensure the quality of its product right from the raw material to the final deliverables, strict adherence to QAP / IPP results in to quality products and inturn customer satisfaction.



Pressure Vessels

WTE is a leading manufacturer of Pressure Vessels. Our quality, engineering, design & production of custom and coded pressure vessels are recognized by many OEMs & other companies that requires Pressure Vessels to be operated in their business processes. These are available in MSEP, MSRL, MSFRP, SS304, SS 316

Engineering Capabilities Includes:

- ▶ Vessel design as per (GEP, ASME, PD5500, IS2825)
- ▶ Tank design
- ▶ AutoCAD (Latest Edition)
- ▶ Solidworks

Area of Expertise

- ▶ Tanks, Custom Pressure Vessels, Filter Housings, Filter
- ▶ MOC Handled - MS, CS, SS (300 and 400 series)
- ▶ Vessels, Tube Settlers, HRSCC
- ▶ Coded Pressure Vessels
- ▶ Skid Assemblies
- ▶ Clarifiers
- ▶ Piping





Electrical Control Panels

We are engaged into manufacturing and exporting of a wide assortment of Electrical Control Panels. Based on the latest technology, the entire product range is offered in varied specifications to suit the different varied needs of our clients. The raw material used in the manufacturing of this range, are procured from the reliable vendors. Owing to the features like durability, easy installation and low maintenance have helped us to gain a huge client-base in the domestic market. Our range include following products:

MCC Power Panel

PLC Panel(Programmable Logic Controller Panel)

APFC Panel

Distribution Panel Board, Power Control Center Panel ,
Process Automation

VFD Panel, Mimic Board Panel, Valve Manifold Boxes,
Industrial Starter Panel

Instrument Control Panel , Local Control Stations ,
Industrial Junction Boxes



Dissolved Air Flotation (DAF)



In The DAF unit suspended solid, Fat, Emulsified & Free Oils are removed from effluent. Here chemical are dosed from dosing tanks. Air Compressor and HPP are provided for this system.

The scum and solids from the DAF system will be collected in sludge sump.

Applications :

- ▶ Petroleum, Textile processing, Beverage, Sugar
- ▶ Dairies, Paper & Pulp, Automobile
- ▶ Food processing, Chemical, Paint





Oil Water Separator

Oil water separator is technology who removed free oil from water till <5ppm with the using of API / TPI, oil skimmer and coalesce column



Salient Features :

- ▶ Achieve Oil and TSS limit as per PESO norms
- ▶ Total recycling system
- ▶ Environmental friendly system

Applications :

- ▶ Use in tank farm of oil & gas industries
- ▶ Railway diesel generator yard

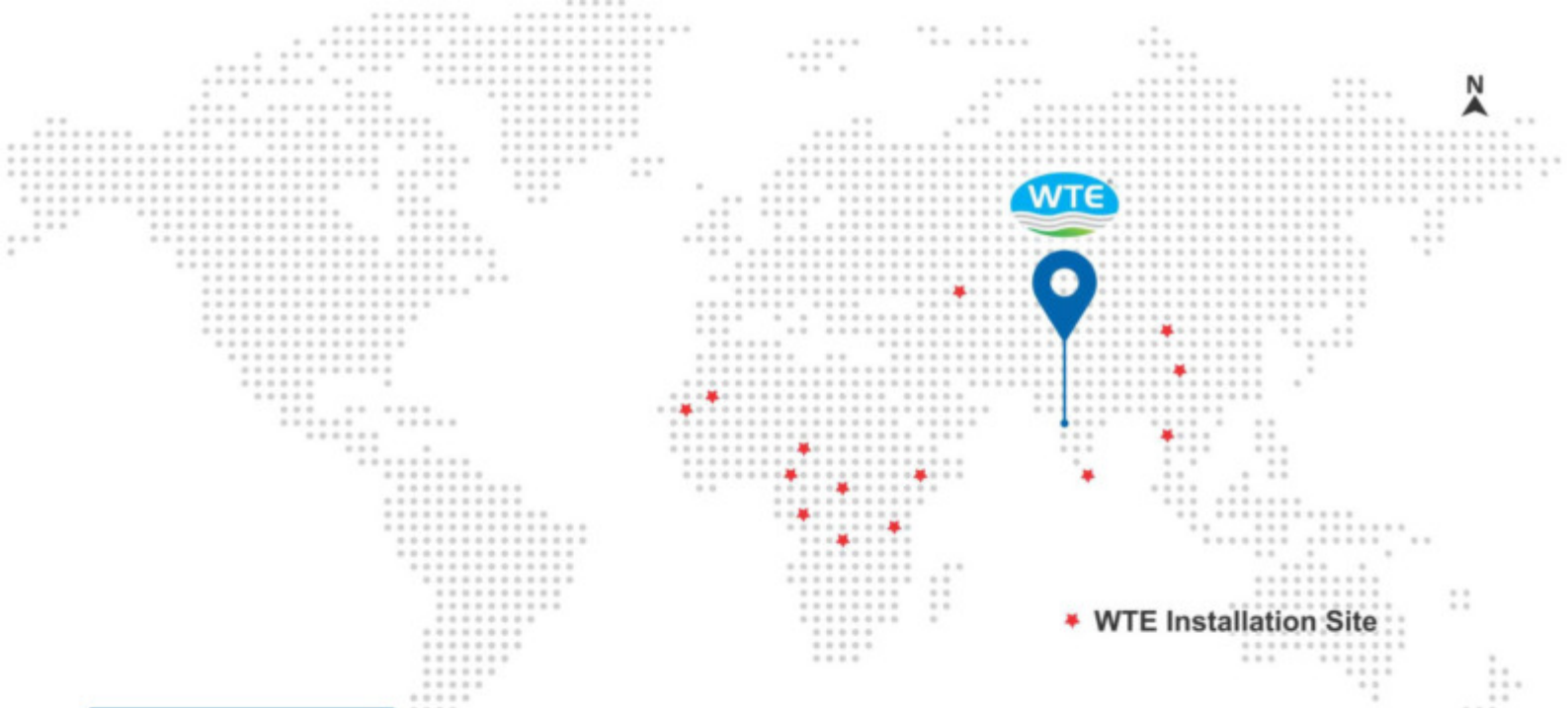


Electro-Deionization (EDI)

Electrodialysis is a process in which electrically charged membranes are used to separate ions from aqueous solutions under the driving force of an electrical potential difference. Because of the arrangement of ion-selective membranes, the migrating ions become concentrated in each alternate cell in the stack.

Applications :

- ▶ Treatment of industrial effluents
- ▶ Removal of nitrate from drinking water
- ▶ Production of Ultra Pure water for the Semiconductor industry.
- ▶ Pharmaceutical and Biochemical Industries



★ WTE Installation Site

WTE Products

- ▶ CLARIFIER/LAMELLA/TUBE SETTLERS/ HRSCC
- ▶ FILTRATION PLANT
- ▶ SOFTENER PLANT
- ▶ ULTRA FILTRATION PLANT
- ▶ REVERSE OSMOSIS PLANT
- ▶ DE MINERALIZATION PLANT
- ▶ SEWAGE TREATMENT PLANT
- ▶ GREY WATER TREATMENT PLANT
- ▶ EFFLUENT TREATMENT PLANT
- ▶ LEACHATE TREATMENT PLANT
- ▶ CONDENSATE POLISHING UNIT
- ▶ OIL WATER SYSTEM
- ▶ ZERO LIQUID DISCHARGE PLANT
- ▶ DISSOLVED AIR FLOTATION (DAF)
- ▶ ELECTRO-DEIONIZATION (EDI)
- ▶ ONLINE MONITORING SYSTEM
- ▶ OPERATION & MAINTENANCE CONTRACTS
- ▶ SURGE VESSEL /PRESSURE VESSEL/TANK
- ▶ CONTROL PANEL

Certification & Membership

TUV AUSTRIA CERT GMBH

Operating Performance Average

कठिकप्या नवनिहाय

Ministry of W&SE, Govt. of India

Engineering Export Promotion Council

WTE **WTE Infra Projects Pvt. Ltd.**
 For Water & Waste Water Treatment System



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