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# Water & Waste Solutions



Complete Turnkey Solutions  
- from concept to commissioning





**THERMAX**

## Sustainable Solutions in Energy & Environment

Welcome to Thermax - an Engineering company providing sustainable solutions in Energy and Environment. Our systems, products and project management capabilities help industry achieve better resource productivity and improved bottom lines, while maintaining a cleaner environment.

Thermax offers systems and products for process heating, cooling, water, effluent treatment, effluent recycle, zero liquid discharge solutions and speciality chemicals. Thermax also designs, builds and commissions large boilers for steam and power generation, turnkey power plants, industrial and municipal water & wastewater treatment plants, waste heat recovery systems and air pollution control projects.

## Thermax: Water and Waste Solutions

As a leader in providing Water & Waste Solutions for past four decades, Thermax WWS (Water & Waste Solutions) pioneers in providing innovative solutions in water and waste water treatment for various industries, PSUs, Municipal Corporation, small and medium industries and Urbanization sector.

Our innovative solutions are successfully implemented and are in use in the markets of South East Asia, Middle East, Africa and SAARC including India. The domain expertise & experience gathered over past four decades gives us edge over competition so as to provide tailor made complete solutions to our customers in order to help them reduce, reuse or recycle water & waste water / effluent so as to have zero liquid discharge.

We are certified for ISO 9001: 2008 and OHSAS 18001:2007 and partnered with various Global as well as Local Consultants, EPC Contractors & OEM's and offer our products / solutions in various design codes of ASME, DIN, API etc.

Our dealer network across India ensures required reach & penetration in every district so as to serve customer locally for all our standard products.



## Turnkey project management expertise

In-house design, detail engineering, procurement, project management, construction & commissioning so as to have single window solution to all our customers.

- Single point responsibility with project manager, for co-ordinating engineering, procurement, construction activities
- Familiarity and experience of our team members with standards, codes and specifications of all major consultants and international

contractors play a crucial role while executing large turnkey projects

- Performance guarantee tests conducted in presence of the clients
- Well documented Operation & Maintenance manual is handed over to client on commissioning
- Track record of successful completion of cost-competitive turnkey projects in water & wastewater treatment speak for our quality and project execution capabilities



- Large scale Membrane based Sea Water desalination plant
- Textile Effluent treatment & Membrane based Recycling with Zero liquid Discharge system
- Develop new biological processes for waste water treatment : Fluidised aerobic bio reactor (FAB)
- Augment Large Capacity Municipal Sewage Treatment Plant
- Containerized Ultrafiltration & Reverse os plants



## Highlights

- Above 400 installations across the industries
- Experience in developing Recycling and Zero Liquid Discharge systems
- Strong team of people having expertise in the field of water/waste water treatment backed by vast experience
- Use of latest software's for design engineering
- Capability to handle water treatment required in super critical power plants
- State of the art technology incorporating latest Control and Automation systems
- Strong construction and execution capabilities
- On-time delivery of projects

## Water treatment solutions

- Raw Water Pre-Treatment and Clarification
- Water Softening & Filtration
- Mill scale & filtration systems
- Membrane Separation systems
- Demineralization plants
- Low pressure and high pressure condensate polishing systems
- Drinking Water treatment plants
- Desalination plants
- Remineralisation plants

## Waste water/ Effluent treatment solutions

- Industrial Effluent treatment plants
- Sewage treatment plants
- Industrial effluent recycle and sewage recycle plants
- Zero Liquid Discharge (ZLD) plants

## Complete solutions for

- High COD effluent & High TDS effluent
- Difficult to degrade effluent
- Coke oven effluent treatment
- Colour removal from treated/partially treated effluent for recycle/disposal
- Nutrients (Nitrogen, Phosphorus) removal
- Heavy metals, Cyanide, Fluoride removal
- Tailor made industry specific solutions

## Market reach Industrial Sector

Steel, Power, Oil & Gas, Fertilizer, Refineries & Petrochemical, Textile, Pharma, Ferrous & Non Ferrous, Chemicals, Automobile, Food & Beverages, Breweries, Distilleries, Sugar, Cement, Pulp & Paper etc.



Arvind Mills, Santej : 12 MLD ZLD Plant



Dynamix Dairy India Ltd,  
(Schreiber Group) - 3 MLD ETP  
& Biogas Utilization



Hyundai Motors -  
136.5 m³/hr ETP Recycle along with ZLD Plant



Cairn Energy -  
Low Pressure CPU - 5 x 125 cum per hr



Tata Steel, Bhavnagar-  
17 MLD Sea Water Desalination



Bhushan Steel Angul- HRF



Tata Steel, Jamshedpur-  
144 MLD RWTP



Essar Oil, Vadinar - 3 x 250 m³/hr DM Plant



## Global Presence

Our subsidiaries and offices spread over 25 locations in 17 countries across the globe which includes Indonesia, Philippines, Thailand, Russia, Kazakhstan, Saudi Arabia, Malaysia, Bangladesh, Belgium, Sri Lanka, China, UAE, Kenya, Nigeria, Brazil, UK & USA.

Thermax Water and Waste Solutions provides end to end solutions as per international standards in Water treatment, waste water treatment Effluent treatment, Effluent recycle & Zero liquid discharge solutions to Global Customers, Consultants & OEM's.

## Installation base

We have more than 100 installations in operations in the markets of South East Asia, Middle East, Africa & SAARC.

Our Prestigious clients include Cargill, Indo Rama, Calik Enerji, Danieli, JIFCO, Arcelor Mittal, Nestle, Glaxo, Carolina Denim, Dangote, Berger Paints, Alexandria, PT Tripatra and many more.

Installation base of Water & Waste Water - Treatment & Recycle business include the following :

- South East Asian Countries – Indonesia, Thailand, Philippines, Singapore & Malaysia.
- Middle East Asian Countries – Saudi Arabia, U.A.E, Kuwait, Bahrain, Oman, Turkey, Kazakhstan, Turkmenistan & Jordan
- Africa – Egypt, Nigeria, Kenya, Algeria & Uganda
- SAARC – Bangladesh, Sri Lanka & Nepal

Thermax's extensive sales, distribution and after sales network provides it with a substantial footprint in India and overseas.

Segment reach: Power, Steel, Textile, Food Processing, Automobile, Palm Oil, Chemical, Fertilizer, Urbanization, Oil & Gas etc.



PT SPV, Indonesia-DM Plant: 2x100 cum per hr



Alexandria Fabrics, Egypt : ETP- 75 cum per hr  
(Cyanide bearing waste treatment)



DM Plant at Cargill Indonesia - Philippines



Containerized Systems



## Range of offerings for small/ medium industries & urbanization sector

- More than 20000 installations of following products across the India and the globe



Softners



Demineraliser



Filters



Ultrafiltration - Membrane based water treatment technology



Lo Flo RO/ SMART RO-Compact modular RO system



SIRO - Standard Industrial Reverse Osmosis



Biofilter Low Flow STP



Terminator - Cost effective Colour Removal system



Fluidised aerobic bio-reactor for waste water treatment and recycling



MBR (Membrane Bio Reactor) based waste water Treatment Plants



Effluent Treatment Plant



Incinerator - A complete solution for solid waste disposal



SeqtreaT - Sequential Batch Reactor Technology for wastewater treatment



Bioenergen - Bio-degradable waste-to-energy plant



BioCask - Low height Domestic Waste Water Treatment



Containerized Plant



Our Boutique assembly & testing unit in Pune



## SEWAGE TREATMENT & RECYCLE SOLUTIONS

- MBBR & SBR TECHNOLOGY PROVIDER to Infrastructure companies, EPC companies and Municipal corporations
- 50+ installations
- In-house design, detail engineering, procurement, project management, construction & commissioning so as to have single window solution.
- Design & engineering consultancy services for STP & WTP
- Round the clock operation & maintenance ( O & M ) services
- Strong construction and execution capabilities
- Enhancement of plant capacity through augmentation and revamp of existing water and waste water treatment plants



Mangalore SEZ : 22.5 MLD Sewage Recycle Plant



Chandigarh Corporation: 136 MLD STP



JKLWDA: 16 MLD SBR based STP



KPCL: 180 MLD WTP

### In-house Research and Development

We believe in growth through innovation and technological advancements. We have full-fledged in-house R&D set up having world

class facilities including Testing, Equipments, Prototypes, Pilot plants & Shop floor plant installation in order to validate product performance.



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Energy & Environment

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### Thermax Business Portfolio

- Heating
- Cooling
- Power Generation
- Air Pollution Control
- Chemicals
- Water and Wastewater Solutions
- Solar
- Specialised Services

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[www.thermaxglobal.com](http://www.thermaxglobal.com)