






Thermax offers Upgrades and Improvement Solutions for

- Pre-treatment for WTP, ETP & STP
- Reverse Osmosis Plants
- Resin Based Plants (DM, Softener, Mixed Bed, etc)
- Ultra-filtration & Nano-filtration
- Sewage Treatment Plants
- Effluent Treatment Plants
- Application Based Solutions
- Automation for WTP, ETP & STP

Our Prominent Customers who rely on us…

Food & Breweries
HUL, ITC, Pepsico, Mondelez, Sab Miller, GSK Consumer Healthcare

Automotive
Hyundai, Honda, Maruti Suzuki, Tata Motors, Bajaj Auto, Mitsubishi

Infrastructure & IT
DLF Limited, JLL Limited, Reliance Infrastructure, Panchsheel Realty, Tata Consultancy Services, Tech Mahindra

Power
Tata Power, CGPL, Korba Power, Adani Power, JSW Power

Industry and Process
L&T, Reliance Industries, Reliance Cement, JSW Steel, Tata Steel, GE, Cummins India, ACC Limited, GHCL, Serum Institute of India

Institutions & Hotels
Indian Institute of Science, Apollo Hospitals, HN Hospital, Oberoi Hotel, Taj Vivanta, Ramada Caravela (Goa)

Thermax also offers Best-in-industry Expert and Reliable services for

- Operation and Maintenance (O&M) : Comprehensive & Non Comprehensive O&M
- Spare Parts Management : High Quality And Reliable Spares
- Smart Plants : Plant Automation, Smart Monitoring Systems
- Plant Performance Assessment & Study, Water Audit and Survey
- Health Checkup & Life Enhancement of WTPs & WWTPs
- Plant Adequacy Reports
- Water Conservation Studies and Solutions
- Special Trainings for Staff



THERMAX
Sustainable Solutions in Energy & Environment

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Thermax Business Portfolio

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

This brochure presents only some of our products and we reserve the right to amend any product details without notice. The photographs used in the brochure are indicative and may not match the actual plant.

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THERMAX

Plant Upgrades and Improvements



Water and Waste Solutions

Sustainable Solutions in Energy & Environment

Thermax is a USD 750 million engineering major providing sustainable solutions in the areas of energy and environment. Spanning over 86 countries, clients make use of Thermax's business-to-business solutions for heating, cooling, power and cogeneration plants; waste heat recovery units; systems for water & wastewater management and air pollution control; performance improving chemicals.

Thermax's operations are supported by ongoing Research & Development, tie-ups with global technology majors, an international sales & service network spread over 27 countries and state-of-the-art manufacturing facilities in 14 locations including India, China, Poland Indonesia, Denmark and Germany.

Thermax's energy efficient and eco-friendly portfolio of technologies includes:

- Boilers
- Heaters
- Absorption Cooling
- Air Pollution Control Equipment
- Chemicals
- Solar
- Power Generation
- Water & Waste Solutions

Plant Upgrades & Improvements

Thermax offers engineered solutions to upgrade your existing treatment plants by utilizing existing as well as new units so as to meet your current requirements. Our proposed improvement solutions for the existing plants give you the benefit of a working system with improved results.



Some of the Upgrades and Improvement Projects Executed by Thermax





PepsiCo India
Channo, Punjab



Industry	Food & Beverages
System	ETP
Plant Upgrades / Improvement	**Improvements** System re-engineering was done to avoid short circuiting & biological treatment with diffusers
Benefit to client	The ETP was revamped to meet the disposal norms



Ashok Leyland
Hosur, Tamil Nadu

Industry	Automotive
System	STP
Plant Upgrades / Improvement	**Improvements** UF as post treatment
Benefit to client	Treated sewage used as process water



Kansai Narolac
Hosur, Tamil Nadu

Industry	Paints
System	WTP
Plant Upgrades / Improvement	**Improvements** Augmentation & revamping of existing WTP with MB as a polisher
Benefit to client	Improved output water quality



Schreiber Dynamix Dairies
Baramati, Maharashtra

Industry	Dairy
System	ETP & WTP
Plant Upgrades / Improvement	**Capacity Enhancement / Automation** ETP : 1000 m^3/day to 3000m^3/day (Anerobic + Aerobic) WTP : 10 m^3/hr to 17m^3/hr with same footprint area (Ultra-filtration + HSRO)
Benefit to client	Increased capacity Improved outlet quality



Huntsman International
Vadodara, Gujarat

Industry	Chemicals
System	ETP & WTP
Plant Upgrades / Improvement	**Improvement & Augmentation** ETP : Improved settling technology WTP : Augmentation of DM Plant
Benefit to client	Savings in power consumption & reduction in Sludge Generation in ETP Improved water outlet quality at WTP

Customer Name	Industry	System	Type of Plant Upgrades / Improvement	Benefit to Client
Hindustan Unilever, Mysore, Karnataka	Food & Beverages	ETP	**Recycle** Second Stage RO	Reject quantity minimised, thereby reducing the operational cost of the drier
Larsen & Toubro, Powai, Maharashtra	Construction	STP	**Improvement** System re-engineering was done to avoid short circuiting & FAB with new aeration system	The STP was revamped to meet the desired quality
Apollo Hospitals, Delhi	Hospitals	STP	**Improvement** UF as post treatment	Treated sewage used for cooling tower makeup
Himatsingka Lines, Hassan, Karnataka	Textiles	Recycle	**Improvement** Dealkalizer and IV stage reject RO incorporated in the existing scheme	▪ Increased recovery ▪ Reduced reject quantity
North Eastern Electric Power Corporation Limited (NEEPCO), Agartala, Tripura	Power	Automation	**Improvement** Automation of 2X27 m^3/hr de-mineralization Plant	▪ Reduction in manpower ▪ Increase Uptime by reducing manual intervention
Bharathi Cement Kadapa, Andhra Pradesh	Cement	WTP	**Upgrade** ▪ UF as RO pre-treatment ▪ DGT -> SAC -> SBA prior to existing MB ▪ Additional RO	▪ Treatment system capable to handle increase in feed parameters ▪ Improved output water quality
KRBL, Punjab	Rice	Special Application	**Special Application** Deashing of liquid glucose	Product quality improvement