



# End to End WATER MANAGEMENT SOLUTIONS

FROM  
WASTE TO  
RESOURCE

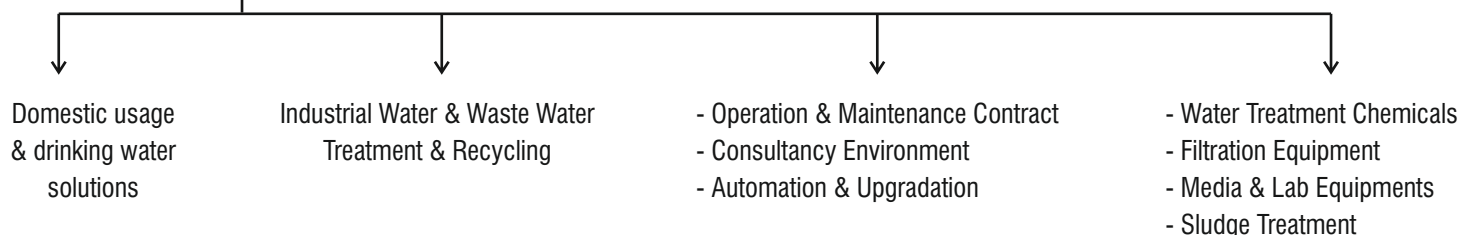


# About Us

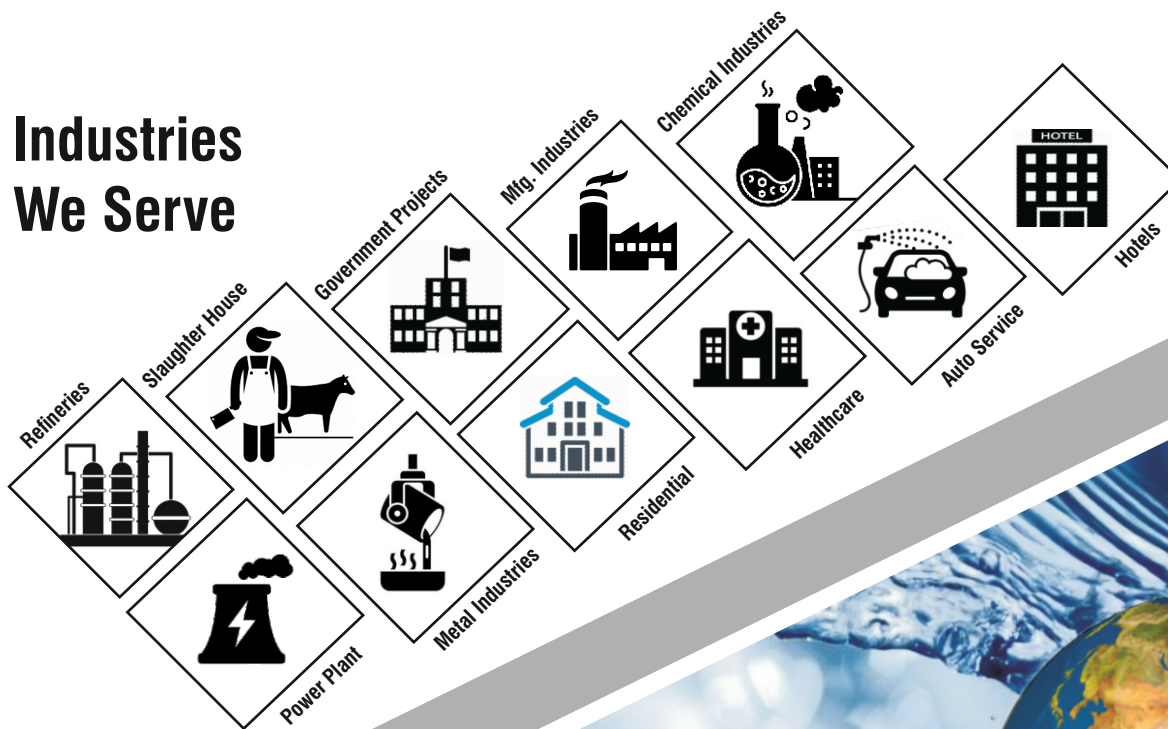
Awetech Works is a leading water & wastewater treatment company. Awetech provides end-to-end solutions in the field of environmental compliance i.e. starting from designing, manufacturing, commissioning & handover up to consent from local authorities.

Awetech has an in-house team of civil, electrical, mechanical & environmental engineers who have a proven track record in offering the best quality product at economical prices and on-time project executions. In this company, a dedicated vertical for AMC as well as operation & maintenance projects is running smoothly with trained manpower. We have a wide range of products with services which make it a flawless partner for any domestic or industrial water treatment and recycling needs

## Business Vertical



## Industries We Serve



# Domestic Water Treatment Solutions

'We believe, access to safe potable water is a basic & universal human need. Thus, when it comes to fulfilling domestic water necessities, we only trust the best of the best which is **PAWANI** powered by Awetech Works Pvt. Ltd.

Along this, Awetech is the authorized channel partner of **Pentair water USA** i.e. a 50-year-old company and global market leader in offering the best water filtration & softening solutions.

## AUTO SOFTENERS



### Pentair Cabinet Auto Softener

Perfect water softening solutions for house hold. Automatic operation make it easy to use & integrated brine tank make it compact & beautiful. Built in bypass features allows flexible adjustment of water hardness.



### Paawni Cabinet Auto Softener

Water treatment & softening solutions at economical prices. Paawni robust design, maintenance free operation & low spare cost makes it a perfect choice of Indian customers.

## WATER PRE-TREATMENT



### Pentair Water Treatment Plant

- Sediment filter to remove mud & impurities
- Carbon filter to remove foul smells.
- Iron removal plant
- Chloride/Floride removal plant
- Disinfection using chlorine, UV or ozonation.



### Pool & Spa Filter

We offers a wide selection of pool & spa filters that come in a wide range of designs to keep pools sparkling clean and healthy. We offer diatomaceous earth (D.E.), cartridge and sand filter products.

## PENTAIR RO PLANT



- Available in 50ltr/hr & 100 ltr/hr.
- No need to store water - fill glass in 8 sec.
- Online filter health indication.
- TDS controller
- Smart self cleaning function protects RO membrane.
- Pentair green RO plus membrane last up to 3 years
- 5 sensor for smart & timely control.

☆ Status indicator provides accurate indication of filter core lifespan



### Water quality sensor

Online water quality indicator



### Water temperature sensor

Protects from high and low temperatures



### Water pressure sensor

Protects from high and low water pressure



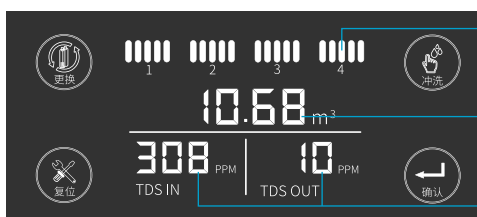
### Lifespan sensor

Controls duration and flow



### Leakage sensor

Cuts off supply when a leak is detected



Filter core with 5 bar indication

Water purification flow rate indicator, status and warning indicator

Water quality (TDS) indicator

# Waste Water Treatment Solutions

## Sewage Treatment Plant

The first and most important thing about the STP unit is the selection of accurate technology. In Awetech, STP design is based upon the type of particular Industry, End-use of recycled treated water, Legal compliances, O&M cost, capital cost, and expansion plans. Besides this, the Awetech STP unit comes with an Automatic ultrafiltration unit, online water monitoring system, sludge disposal system, PLC-based automation & cost-effective annual maintenance cost plans.



### Technology - MBBR / FAB

Compact & pre-fabricated STP plants for small and mid size project. Modular packaged STP comes ready to plug-in at site. Saves high cost of construction and it is very easy to operate and maintain.



### Membrane Bio Reactor (MBR)

MBR is the most advanced technology to treat industry effluent. In MBR technology there is no need of tertiary treatment or Ultra-filtration unit and the quality of output water is excellent. Awetech automatic MBR based STP offers auto CIP process and thus ensure long membrane life and desired quality of treated water. Perfect solution for industry that reuse the recycled water.



### Sequential Batch reactor (SBR)

Activated Sludge process (ASP) Awetech in-house engineering team has expertise to construct large scale STP plants in civil. We can offer end to end solution to our customers that includes

- Sewerage line planning & construction.
- STP construction for green field project.
- Environmental clearance
- Operation and Maintenance contract.

## Effluent Treatment Plant

Unlike Sewage, every industry's effluent parameters vary in nature. Therefore, a perfect design is very crucial otherwise the entire investment in the project will be wasted. For instance, for Effluent with High COD level, anaerobic reactors suit best, while for highest TSS with low COD level Physio-chemical with the aerobic process is appropriate. In Awetech design, the team holds 25 years of experience in ETP engineering, construction, design & management.



### Compact ETP unit

Physio-chemical based compact ETP unit for small projects like Automobile service station, Hospitals, printing units, electroplating units..etc



### Industrial Effluent treatment plant.

Physio-chemical with aerobic and anaerobic treatment methods for textile, Food processing, paper, chemical refinery, and other large scale manufacturing industry.

# Water Recycling & Zero Liquid Discharge

Awetech team has 20 years of experience and expertise in design of UF and Industrial RO system. This system will offered stand alone for Water treatment purpose or in conjunction with treated waste water for water recycling purpose. Awetech team promises the best output recovery from UF and RO units and thus reduces the operational cost of complete zero liquid discharge unit.

## Industrial Ultra Filtration Plant



UF plant is used to treat water or treated waste water. UF can reduce high molecular weight substance, Colloidal material, turbidity, suspended solids and microorganism up to great extent and offers safe and clean water for various purposes.

## Multi Stage RO Plant



Awetech RO is designed and manufactured by experts. RO unit comes with Automatic CIP system, Pre-treatment plant and Automatic Control panel. It also generated alarm when TDS or Reject water flow increases from permissible limit.

## Zero Liquid Discharge

ZLD plants are used to separate the industrial effluents in to solvents, condensed water and disposable concentrated salts. Awetech Multi effect evaporator is designed with single goal that the required energy input should be minimum to evaporate undesirable water content.



Multi Effect Evaporator



Thermal Electrical Evaporator

## Bio-digester



Bio-digester technology has been developed by DRDO. In this technology there is no need of power supply and also continuous monitoring and maintenance is not required. More than 90% organic matter and 99% pathogens get reduced by bio-digesters.

## Compact Bio-Gas Plant



Awetech offers Bio-gas plants in applications like cowshed, food processing unit etc because the waste generated from these plants are agriculture or organic waste. Biogas generated will be used to run treatment unit and also power-up the other sections of projects.

# Industrial Water Treatment Solutions

Every industries need to treat water in specific way to obtain very high quality water for demanding applications. Like for Boiler application soft water, for chemical processing - DM water, for Food processing RO water is required .. etc Awetech's technical team will not just offer you the quality product but also helps you to choose the right product for your application.

## Demineralization Plant



DM plants are one of the most complex Water treatment plants (WTP), that often installed in series with Industrial RO. Periodic recharge with strong acid and base is most critical part in DM operation. Awetech's fully Automatic DM plant work effectively without regular manpower intervention.

## Industrial Water Softener



Awetech Automatic Water softener is a fail safe unit that comes with automatic regeneration, Brine sensor, level sensors, flow control and online health indications to ensure desired quality of output soft water every time without fail.

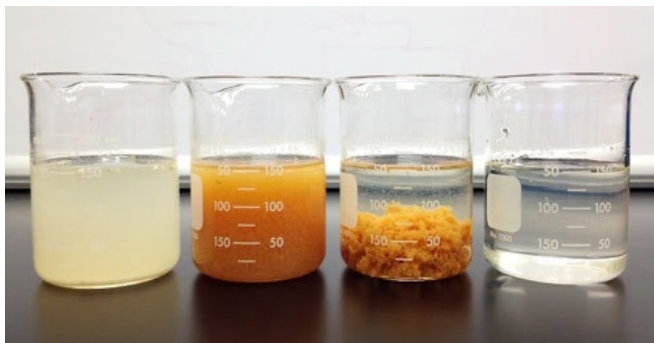
## Water Treatment Plant



### Municipal corporation Projects for Town Water Supply and Urban Septage Management.

From Storage, treatment and distribution of fresh water in cities up to laying of drainage line, collection of effluent and recycling of waste water - Awetech EPC project team handles everything with utter perfection. Our in-house civil team has handled complex challenges of water distribution and waste water collection & treatment projects, at large scale.

## Chemicals & Consumables



- Coagulants & Flocculants
- Anti scalant
- Salt tablets for water softener
- Tube deck media
- Sand and Carbon media
- Bacteria culture for STP
- Disinfectants
- pH Boosters
- Industrial Effluent treatment chemicals

# Services

## Operation & Maintenance

Experienced O&M team of Awetech knows that preventive maintenance is the key to extended product life cycle, efficient working and smooth plant operation.



The trained professionals are the most basic and important requirement for any O&M. Before starting his work at site, every Awetech O&M professional has to pass multiple internal assignments like Training programs on Safety Norms, code of conduct, Plant operation, Technical know-how, optimise use of chemicals & utilities and Preventive maintenance.

Awetech team of subject matter experts like Chemist, lab assistant, Certified plumbers, electrical Engineer, Civil engineer and environment engineers are always available to provide technical support to site team. All Awetech O&M professionals are equipped with PPE kits and mechanical tools.

### Awetech Brand Promise to O&M Contract customers

1. Ensure plant operation and preventive Maintenance activities as per set SOP, without compromising on safety norms.
2. Optimum use of Chemicals and consumables.
3. Right people and right tools for the right job.

## Our Esteemed O&M Contract

Sr. No.	Project Name	Equipment	Capacity	Status
1.	Northern Coal Mines (NCL Bina)	ETP	32 MLD	Running
2.	Satpura Thermal Power Station	STP	2.6 MLD	Running
3.	Goa Airport	STP	300 KLD	Running
4.	Tricone City Project Indore	STP	600 KLD	Complete
5.	Ariba Foods Pvt. Ltd.	WTP	200 KLD	Running
6.	Shreeji Polymers Limited	ETP	100 KLD	Running
7.	Goursons India Pvt. Ltd.	STP	550 KLD	Running

# OUR ESTEEMED PROJECTS




**FOOD PROCESSING  
INDUSTRY EFFLUENT  
PROJECT  
200 KLD  
ETP**



**O&M  
2.6 MLD  
STP**




**MID DAY  
MEAL KITCHEN  
WASTE TREATMENT  
PROJECT  
100 KLD  
ESTP**



**CCL HOSPITAL  
WASTE  
TREATMENT  
PROJECT  
25 KLD  
ETP**




**AUTOMOBILE  
SERVICE  
STATION  
300+  
PROJECT  
5-25 KLD  
ETP**



**HOSPITAL  
WASTE  
TREATMENT  
100+  
PROJECT  
5-50 KLD  
ESTP**



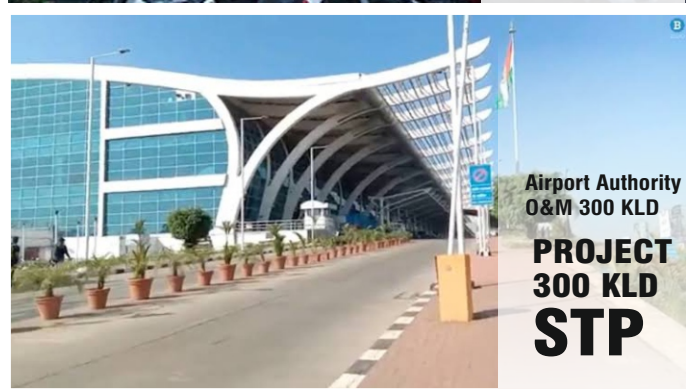

**RESIDENTIAL  
TOWNSHIP  
PROJECT  
600 KLD  
MBBR  
STP**




**Real estate Group  
O&M 550 KLD  
STP AND CETP  
200 KLD  
PROJECT  
CETP & STP**



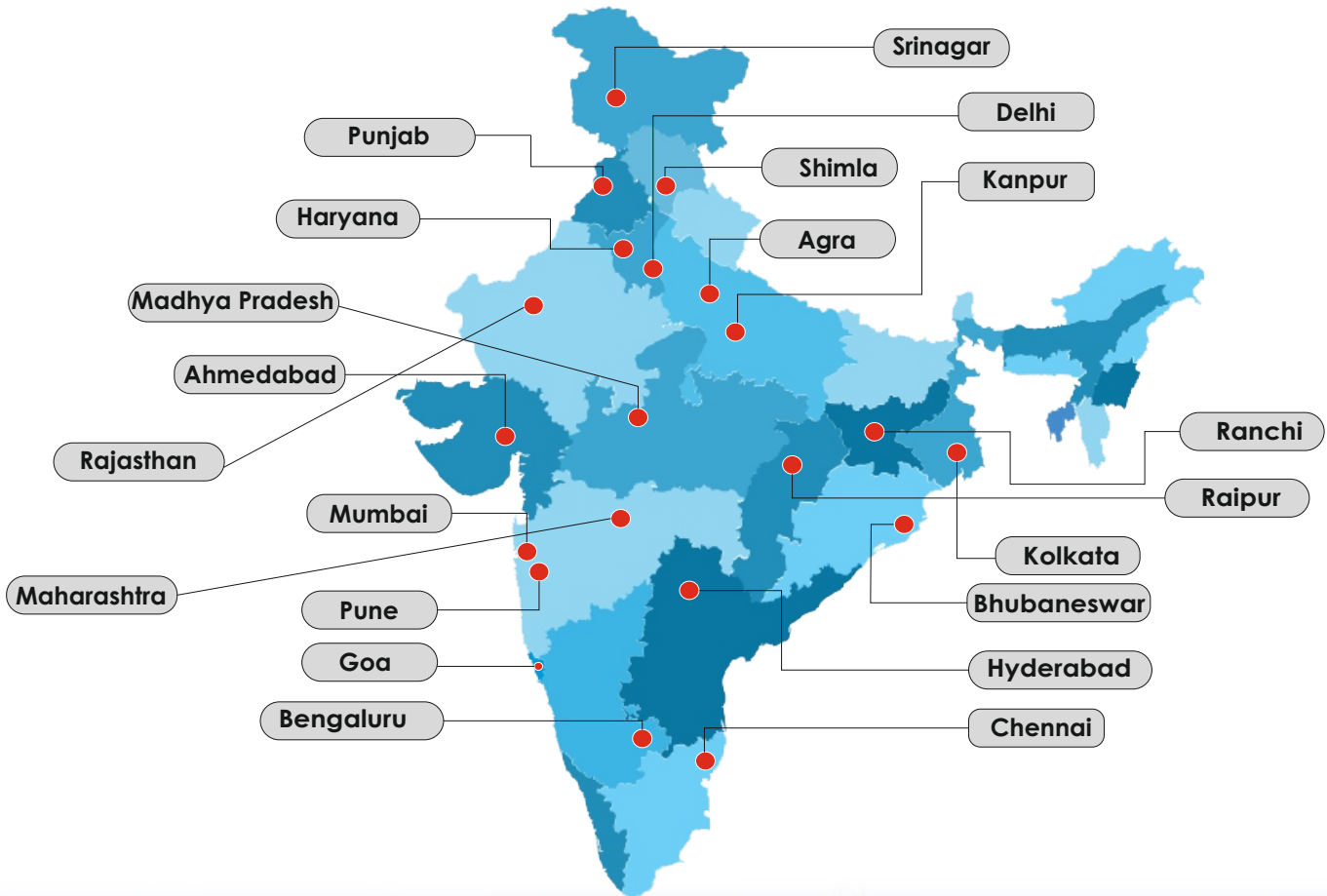

**IOCL KOLKATA  
SEWAGE  
TREATMENT  
PROJECT  
20 KLD  
STP**



**Airport Authority  
O&M 300 KLD  
PROJECT  
300 KLD  
STP**



# OUR PRESENCE IN INDIA



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