



MORFINDIA Private.Limited

End - to - End Solutions
In Water Purification and Sewage Treatment



ABOUT US

MorfIndia, established in 2008 as a partnership firm selling conventional and other household appliances, is today an ISO 9001:2008 certified and CRISIL rated private limited company and a leading player in water and waste water treatment industry. With thousands of customers across South India, we are a vertically integrated and professionally managed organization led by a dynamic team of qualified technocrats.

MorfIndia provides complete water and wastewater engineering management solutions. Our technical experts are best in designing, planning, Erection and commissioning of turnkey, customized, portable projects in recent advanced Technology like Membrane Bio Reactor (MBR) & Zero Liquid Discharge (ZLD).

We undertake all kinds of water and wastewater treatment solutions on turnkey basis. Furthermore, we also carry out Environmental risk Assessment Contractor, Environmental product Developments Environmental consultancy and Laboratory Services.

Our Directors are highly Qualified Environmental Engineer. They have done their post-graduation in well reputed Government Institution. Their agricultural family background and personal aspiration to protect the environment have let them to take up a career in Water and Wastewater management Studies & business which is a key element of our environment clean.

VISION & MISSION



To achieve and maintain total Customer Satisfaction by providing on-time delivery of high-quality products and services to our esteemed customers



To develop the necessary competence and upgradation of design, engineering and manufacturing capabilities for total customer satisfaction



To fulfill legal requirements, compliance obligations and other statutory mandates



To protect the environment and ensure prevention of pollution, injuries and ill-health



To impart training for all-round development of our employees



To periodically review the adequacy of our QEHS system and continually motivate our employees to improve our processes and QEHS system.

SERVICES

Vertically integrated services offered by us cover every aspect of our product range resulting in maximizing the overall performance level of our products. Our knowledgeable and responsive technical team comprises of experienced engineers, hydrogeologists, microbiologists and chemists who advice and guide our customers on output quality of the equipments, optimizing operational efficiencies, capacity augmentation, plant upgradation / automation, engineering support, reduction in recurring expenses, annual service contracts etc.

OPERATIONS AND MAINTENANCE (O&M)

- MorfIndia serves 24 X 7 full-fledged operation and maintenance. We have strong technical O & M team.
- The Effluent Treatment plant or Sewage Treatment Plant once constructed/established need to have operation & maintenance through qualified & experience persons to serve efficient & effective operation of ETP/STP, qualified operator & supervisor are being provided by Perfect Pollution Services who maintains all the records of the operation and attends the day to day trouble shooting.
- Maintenance of Pumps and Motors, Electrical Panels (Starters, Meter, (Energy, Voltage, Amperage, Power factor), Blow out Fuses, Valves, Gates, Scraping Bridge Trolley, Aerators, Reduction Gears, Open Air Weather Casings for Motors, Sprocket wheels and Chains for Mechanical Grit and Screen removing devices.
- Saving you money A well maintained and operated Industrial Wastewater Treatment system will help to save money in the long term, it can also ensure you comply with regulations and legislation.
- Type of plants - STP, ETP, RO, WTP, DM plant, Swimming pool, Mechanical Evaporator,ATFD, UF, O&M.

REVAMPING AND RECOMMISSIONING OF EXISTING STP/ETP

- We firmly believe in optimum utilization of existing plants. We offer comprehensive revamping and Recommissioning options to our customers. We study existing systems of clients and offer detailed options for meeting standards, capacity enhancement and optimum utilization of existing electro mechanical equipment. We offer following services for Revamping and Recommissioning of Plants.
- Detailed on site study of existing systems by our qualified engineers.
- In depth analysis for under performance of systems.
- On Site study and trails of capacity enhancements.
- Detailed reports, presentations on operational failures.





REVERSE OSMOSIS PLANTS (RO PLANTS)

We specialize in providing state-of-the-art Reverse Osmosis (RO) plants designed to deliver the purest water for residential, commercial, and industrial needs. With years of experience, we ensure efficient, eco-friendly, and cost-effective water purification solutions.



Hair Damage

Skin Damage



Scaling & Clogging

Reduce Life of Appliance



From utility water to drinking water, purify every drop of water that touches you. not just drinking water you use, needs to be pure? As we have progressed and improved the way we live , the environment around us has been compromised. This has forced us to fight a constant assault of toxic substances that are also now in our water, making it impure.



INDUSTRIAL RO PLANT

- The ability to remove many dissolved substances efficiently, yet produce good tasting finished water.
- RO does not add any other chemical to your water. It merely separates the dissolved substances from the incoming water.
- RO performs a separation without a phase change. Thus, the energy requirements are low.
- RO equipment is standardized - pumps, motors, valves, flowmeters, pressure gages, etc.
- Our most of the RO systems are fully automated and designed to start-up and shutdown automatically through interlocks. Thus, RO plants usually requires Skilled.



- Due to our modular design, maintenance is easy. Scheduled maintenance can be performed without shutting down the entire plant.
- The modular design also makes expansion an easy option.
- We are experts in designing, erection & commissioning of RO Plant ETP's post treatment.
- Upto 95% of recovery can be achieved on providing various stages.
- Our advanced Industrial RO Plants remove dissolved salts, chemicals, and contaminants, ensuring ultra-pure water for various industrial applications.
- Engineered for durability and efficiency, our RO systems are tailored to meet the specific water treatment needs of industries like manufacturing, pharmaceuticals, and food processing.

Our Reverse Osmosis Plant (RO Plant) used for - Residential - House / Apartment / Bungalows, Educational Institutions & Hospitals, Hotels & Restaurants, Industries / Factories / Companies.



250 LPH RO PLANT
FULLY AUTO, SEMI AUTO & MANNUAL



500 LPH RO PLANT
FULLY AUTO, SEMI AUTO & MANNUAL



1000 LPH RO PLANT
FULLY AUTO, SEMI AUTO & MANNUAL



4000 LPH RO PLANT
FULLY AUTO, SEMI AUTO & MANNUAL



6000 LPH RO PLANT
FULLY AUTO, SEMI AUTO & MANNUAL



10000 LPH RO PLANT
FULLY AUTO, SEMI AUTO & MANNUAL



IRON REMOVAL PLANTS WITH WATER SOFTENER

MorflIndia's iron removal plant with a water softener. Now a day many homes, apartments, flats, hotels, hospitals, companies and commercial places face both iron water and hard water problems. Our iron removal plant with a water softener is the best solution to treat their water. We provide two iron removal plants and one water softener plant with a regeneration drum.



HARD WATER



SCALING&FORMATION



IRON WATER

Our two iron removal filters use high-quality media to efficiently remove both large and small iron particles from water. The iron-free water then passes through a water softener, where an ion exchange process with rock salt replaces calcium and magnesium ions with sodium ions, transforming hard water into soft water.



IRON REMOVAL PLANTS

Iron in water can leave behind stains on hard surfaces and household appliances and can make your drinking water taste and smell a little off. With the High-Efficiency Iron removal plant, reduces the negative impacts that iron can have on your water quality. At the end of the day, the state-of-art Iron removal plant technology leaves you with cleaner dishes, fixtures, tubs and sinks, and better-tasting water. With cutting-edge technology and a commitment to quality, we deliver water free from excessive iron and other harmful contaminants.

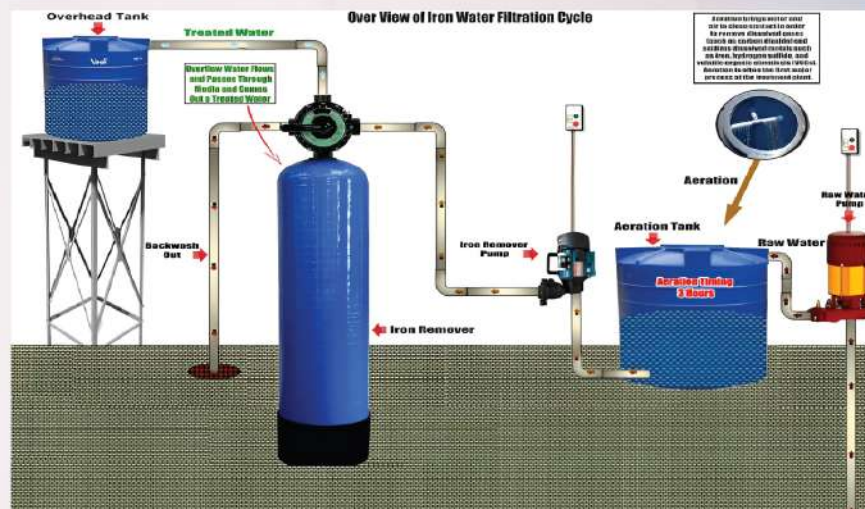
ARE YOU SUFFERING FROM IRON WATER PROBLEMS?

MorflIndia Iron Removal Plant is available in semi-automatic, fully-automatic and manual systems. Our Iron removal plant uses High-quality filter media and is made in super-quality SS vessel and MS vessels.

Benefits of Iron-Free Water:

- Prevents rust stains on clothes, tiles, and fixtures.
- Enhances the taste and smell of water.
- Protects plumbing systems and appliances from corrosion.
- Improves the quality of water for irrigation and other applications.
- Promotes better health by eliminating harmful iron content.

MorflIndia is dedicated to providing innovative and cost-effective solutions for iron-free water. With our advanced systems and exceptional customer service, we ensure that your water treatment needs are met with the highest standards of quality and care.





SS Send filter pant activate
carbon filter Water softener
plant



MS dual media filter water
softener plant



MS sand filter plant dual media
filter plant activated carbon
plant



MS Iron removal plant multi grade
filter plant



MS water treatment plant



Iron Removal Plant sand filters plant
Water softener plant



WATER SOFTENER

UNIQUE FEATURES

- Fully automatic microprocessor-controlling operation
- Display - Current time, remaining soft water & current flow
- Brine Tank with Brine valve, Brine well and perforated Disk
- BFT Technology helps to make fully automated operation with pump and softener.
- Incorporated with pressure relief SV and sampling valve
- R Series MPV with Big Display
- E(Q) Series MPV with Small Display
- Can be use before and after soft water storage tank
- Can be use for individual Bungalow



MODEL WISE SPECIFICATION

	13X54	14X65	16X65	18X65	21X62	24X72
Max. Flow Rate	:3000 Lph	:3500 Lph	:3000 Lph	:3500 Lph	:3000 Lph	:3500 Lph
OBSA (Basis on 200ppm)	:75000 Ltr	:75000 Ltr	:156250 Ltr	:156250 Ltr	:131250 Ltr	:131250 Ltr
OBR (Basis on 200 ppm)	:18750 Ltr	:18750 Ltr	:31250 Ltr	:31250 Ltr	:43750 Ltr	:43750 Ltr
Sand - Resin Tank Volume	:103 Ltr	:103 Ltr	:145 Ltr	:145 Ltr	:185 Ltr	:115 Ltr
Sand Quantity	:60 Ltr	:60 Ltr	:90 Ltr	:90 Ltr	:115 Ltr	:175 Ltr
Resin Quantity	:75 Ltr	:75 Ltr	:125 Ltr	:125 Ltr	:175 Ltr	:200 Ltr
Salt Tank Volume	:100 Ltr	:100 Ltr	:200 Ltr	:200 Ltr	:200 Ltr	:27 Kg
Salt Required / Regeneration	:12 Kg	:12 Kg	:19 Kg	:19 Kg	:27 Kg	:79 Kg / 3
Salt Qty. (OBSA) / No's of Reg	:45 Kg / 4	:45 Kg / 4	:94 Kg - 5	:94 Kg / 5	:79 Kg / 3	:0.15 - 0.6 Mpa
Working Pressure	:0.15 - 0.6 Mpa	:0.15 - 0.6 Mpa	:0.15 - 0.6 Mpa	:0.15 - 0.6 Mpa	:0.15 - 0.6 Mpa	:1"
Inlet-Outlet Size	:1"	:1"	:1"	:1"	:1"	:1"
Dimensions in mm	:L1210 X W480 X H1760	:L1210 X W480 X H1760	:L1500 X W580 X H2030	:L1500 X W580 X H2030	:L1550 X W580 X H2030	:L1550 X W580 X H2030



WATER TREATMENT PLANT WITH (SS & MS)

UNIQUE FEATURES

- Fully automatic microprocessor-controlling operation
- Display - Current time, remaining soft water & current flow
- Brine Tank with Brine valve, Brine well and perforated Disk
- BFT Technology helps to make fully automated operation with pump, water level controller and Softener
- Incorporated with pressure relief SV and sampling valve
- Can be use before and after soft water storage tank
- Can be use for individual Bungalow



MODEL WISE SPECIFICATION

	100R	500R	700R	1000R	2000R
Max. Flow Rate	:9000 Lph	:9000 Lph	:9000 Lph	:9000 Lph	:9000 Lph
OBSA (Basis on 200ppm)	:343750 Ltr	:318750 Ltr	:812500 Ltr	:675000 Ltr	:1350000 Ltr
OBR (Basis on 200 ppm)	:68750 Ltr	:106250 Ltr	:162500 Ltr	:225000 Ltr	:450000 Ltr
Resin Tank Volume	:310 Ltr	:450 Ltr	:700 Ltr	:1000 Ltr	:1890 Ltr
Resin Quantity	:275 Ltr	:425 Ltr	:650 Ltr	:900 Ltr	:1800 Ltr
Salt Tank Volume	:500 Ltr	:500 Ltr	:1000 Ltr	:1000 Ltr	:2000 Ltr
Salt Required / Regeneration	:42 Kg	:64 Kg	:98 Kg	:135 Kg	:270 Kg
Salt Qty. (OBSA) / No's of Reg	:207 Kg / 5	:192 Kg / 3	:488 Kg / 5	:405 Kg / 3	:810 Kg / 3
Working Pressure	:0.15 - 0.6 Mpa	:0.15 - 0.6 Mpa	:0.15 - 0.6 Mpa	:0.15 - 0.6 Mpa	:0.15 - 0.6 Mpa
Inlet-Outlet Size	:2"	:2"	:2"	:2"	:2"
Dimensions in mm	:L1450 X W890 X H2210	:L1950 X W1110 X H2500	:L1570 X W960 X H2360	:L2160 X W1280 X H2660	:L2160 X W1280 X H2660



Your life is SCALE FREE with MorflIndia

Scale Free range of products are the result of long time research and development. **MorflIndia** has deep focus to understand hard water scaling problem. We observe that we need very frequent maintenance in plumbing, sanitary wares and appliance like geyser, washing machine, dish washer and Ro water purifier. Moreover, water leakage happens in most of the faucets & toilet flushing tanks are due to hard water scaling and therefore unmeasurable quantity of water gets wasted.

Ground borewell water contains higher amount of Calcium (Ca), Magnesium (Mg) and Iron (Fe) ions that forms insoluble substances like Calcium carbonate, Magnesium carbonate and Iron oxide and it forms a thick layer on pipes, plumbing, sanitarywares and appliances which is commonly called hard water scaling.

MorflIndia ScaleFree range of product's working principles is based on polyphosphate Antiscalant media. **MorflIndia's** Polyphosphate Antiscalant media is being polymerised at high temperature of 12000 C and the effect after dissolve in water, makes the water Anti- Corrosive & Anti-Scaling.

MorflIndia's Polyphosphate media is colorless, testless, odorless, toxin-free and totally harmless to human body.

MorflIndia's polyphosphate Antiscalant media reacts with calcium Magnesium and iron to produce soluble complexes. It prevents production of Calcium carbonate and Magnesium carbonate and also reacts with iron, to make it dynamic anti-corrosive, anti scaling film on water contact area of pipes, plumbing sanitary ware and appliances.

MorflIndia's polyphosphate antiscalant balls is a slow dissolving media. **MorflIndia** polyphosphate antiscalant media only needs to dilute 2 to 5gm in 1000 Ltr water. For the perfect dilution dosing, **MorflIndia** has developed Different products based on application, such as RO ScaleFree, ScaleFree Tank, ScaleFree Appliances and ScaleFree Communities.



INDUSTRIAL SERVED



- VILLAS
- APARTMENTS
- HOSPITALS

- HOTELS
- INDUSTRIES
- INSTITUTIONS

ACHIEVEMENTS



**2000+
INSTALLATIONS
ACROSS INDIA**



**ADDING OF NEW
CLIENTS EVERY YEAR
UTPO 1.5 TIMES**



**SUCCESSFULLY
INSTALLED PLANTS
UPTO 1800 KLD**



**EXPERIENCED STAFFS
WITH STRONG TECHNICAL
ADMIN TEAM**



**SPECIALIZED IN BOTH
WTP & ZLD CLIENTS**



PACKAGING DRINKING WATER RO PLANT

- Scientific design of the RO plant, based on Impurities of the Raw Water, Ensures consistent quality of the water and imparts more confidence in Water Quality.
- High thickness Stainless steel of Repute Make like Jindal, Essar, Tata gives excellent strength and gives enjoyment of lang life and good return on investment.
- Simplified Control panel design ensures ease operation and benefits of low breakdown and less down time.
- **Morflandia's** Advanced Value added technology improves the taste of the water which helps in gaining more and more loyal clients thus helping in building BRAND & High Business Growth in mineral water business.
- **Morflandia's** RO plant is equipped with Branded Electrical Accessories which ensures the machine's optimum performance with advantage of very low breakdown and higher productivity.
- Fully Automatic Design helps Reduce Labor Cos.
- Inner Food Grade Coating Gives Added Strength, Corrosion Resistance & Benefits of Long Durability.

RO PLANT

We design customized water purification RO plant as per raw water quality. Our Plant comes in different design including FRP, SS, ISI, Non ISI, Commercial, Capacity of this plant starts from 250 Lph to 20,000 Lph & More...and for laboratories.

We Have Developed different technology to enhance the quality & Taste of water like - Added mineral, Ozonation, Oxygen Maker, Spring, EMF, GAC etc..





DEMINERALISATION WATER PLANT

Demineralisation (DM) is the process of removing mineral salts from water by using the ion exchange process. With most natural water sources, it is possible to use Demineralisation and produce water of a higher quality than conventional distillation. Hydroflux manufactures a wide range of custom-built DM Water plants for industrial processed water applications, with inherent design to conserve water and save costs. The DM Plants are available in different sizes and materials, manually operated or fully automatic, & ready to install.

OUR SERVICES, FEATURES AND BENEFITS

Our demineralization water systems are designed to last for a more extended period because of the proper selection of construction and design material.

Some of the key features of our DM Plants being

1. The water produced by these units is of much higher quality than the regular distilled water we use.
2. Choose from DM plants of different sizes and boasting different spec. Units designed & manufactured to be used in labs as well as for large, medium, and small-scale industries.
3. The purification process doesn't involve the use of any chemical. The process also doesn't produce any dangerous waste products.
4. Units will not need much space for storage.
5. Using DM plants to demineralise water has been found to reduce the overall product cost for industrial MIX BED PLANT manufacturing units.



Specifications:

Flow Range: 100 LPH to 100 KLPH (100m³)
Materials: FRP/SS/MSRL/MSEP and Civil construction.
Operation: Semi - Automatic / Fully Automatic plants
Service: 24*7 Support Available
Maintenance : Free AMC for first year
Installation & Commissioning: Free, Parts of Project

DM Plants Applications:

Laboratory
Commercial Washing Units
Industry
Hospitality Industry Hospital
Food & Beverages
Pharmaceutical Industry and Automobile Industry.



PRE FABRICATED SYSTEM (MS & SS)



- Customized Unit based on Client and OEM's requirement MS/SS Filter Vessels & Tanks with Inner FRP Coating / Epoxy Painting with outer enamel painting.
- All kinds of water and wastewater pipeline with end-to-end works are carried out.
- SS 304 vessels for food grade systems are fabricated. Plug & Play portable readymade prefabricated WTP/STP/ETP systems are done.

ULTRA FILTRATION (UF)

- Ultrafiltration (UF) is a type of membrane filtration in which hydrostatic pressure forces a liquid against a semipermeable membrane.
- UF can be used in treating Water, Sewage and Effluent.
- Maintenance cost very low.
- No need for chemical (coagulants. Flocculates, disinfectants, pH adjustment.)
- Size exclusion filtration c opposed to media depth filtration.



WATER DISPENSER



- Water purification methods based on the quality of raw water.
- Eco Green water purifier has an advanced, Micro controller based PCB ensures 100% purity.
- Eco Green water purifier uses World's best purification methods like UV, OZONE, RO etc. Conway water purifier has an advanced preventive maintenance information display.
- Eco Green water purifiers are heavily built, using stainless steel housings, MS powder coated frames.



SEWAGE TREATMENT PLANT

Sewage treatment is the process of removing contaminants from wastewater generated from industrial or domestic sewage using physical, chemical, and biological processes. Its objective is to produce an environmentally safe fluid waste stream and a solid waste (or treated sludge) suitable for disposal or reuse usually as manure. The treated water after tertiary treatment can be used for cooling towers, horticulture, flushing and washing.

SRC offers various advanced technologies with low footprint as per customer requirement. The prefabricated STPs from 10 KLD to 150 KLD are ideal for applications where time and area are the essence of the project. Higher capacity STPs require civil construction.

Technologies Offered:

- **FAB - (Flocculating Aerobic Bio Reactor):** The process uses floating PVC media and a two stage design for higher efficiency.
- **SAFF - (Submerged Aerobic Fixed Film):** This is the simplest and most cost effective method of commercial and residential sewage sanitation / waste water treatment, suited for small to medium sized treatment plants where available land is limited and full time operational manning would be uneconomical.
- **MBBR - (Moving Bed Biofilm Reactor):** This process is based on the aerobic bio-film principle and utilizes the advantages of activated sludge and other biofilm systems without being restrained by their disadvantages.
- **MBR - (Membrane Bio Reactor):** When the treated water is to be reused and is used as feed water for Reverse Osmosis, a high degree of purity with low BOD & COD is essential.
- **SBR - (Sequence Batch Reactor):** A type of the activated sludge process which combines all the process (fill, react, settle, decant, idle) in a single tank, giving it the proclaimed name





EFFLUENT TREATMENT PLANT

Effluent Treatment covers the mechanisms and processes used to treat water that have been contaminated in some way by anthropogenic industrial or commercial activities prior to its release into the environment or its reuse. Effluent treatment plants may also be utilized effectively for a cluster of small scale industrial units. ETPs can be based on physio-chemical or biological treatment, in presence of air (aerobic) or in the absence of air(anaerobic).



Key Features of an ETP:

- Primary Treatment: Removes suspended solids and floating debris.
- Secondary Treatment: Biological processes to break down organic matter.
- Tertiary Treatment: Advanced filtration and disinfection for high-quality water output.
- Sludge Management: Proper disposal of by-products from treatment processes.

Benefits of an ETP:

- Ensures compliance with environmental standards.
- Reduces water pollution and conserves natural water resources.
- Enhances the reputation of businesses as eco-conscious organizations.
- Promotes water recycling, minimizing operational costs.

APPLICATIONS:

- Food Processing Units
- Pharmaceutical Units
- Refineries
- Textile Houses
- Laundries
- Mining



OUR CLIENTS



HISTORY OF WATER PURIFIER

The Hippocratic Sleeve, invented by the ancient Greek physician Hippocrates around 500 BCE, was one of the first tools for water filtration. This simple cloth bag was used to strain impurities, making water cleaner and safer for consumption. Hippocrates believed that clean water was essential for health and well-being, laying the foundation for modern water purification techniques.



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to know more



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