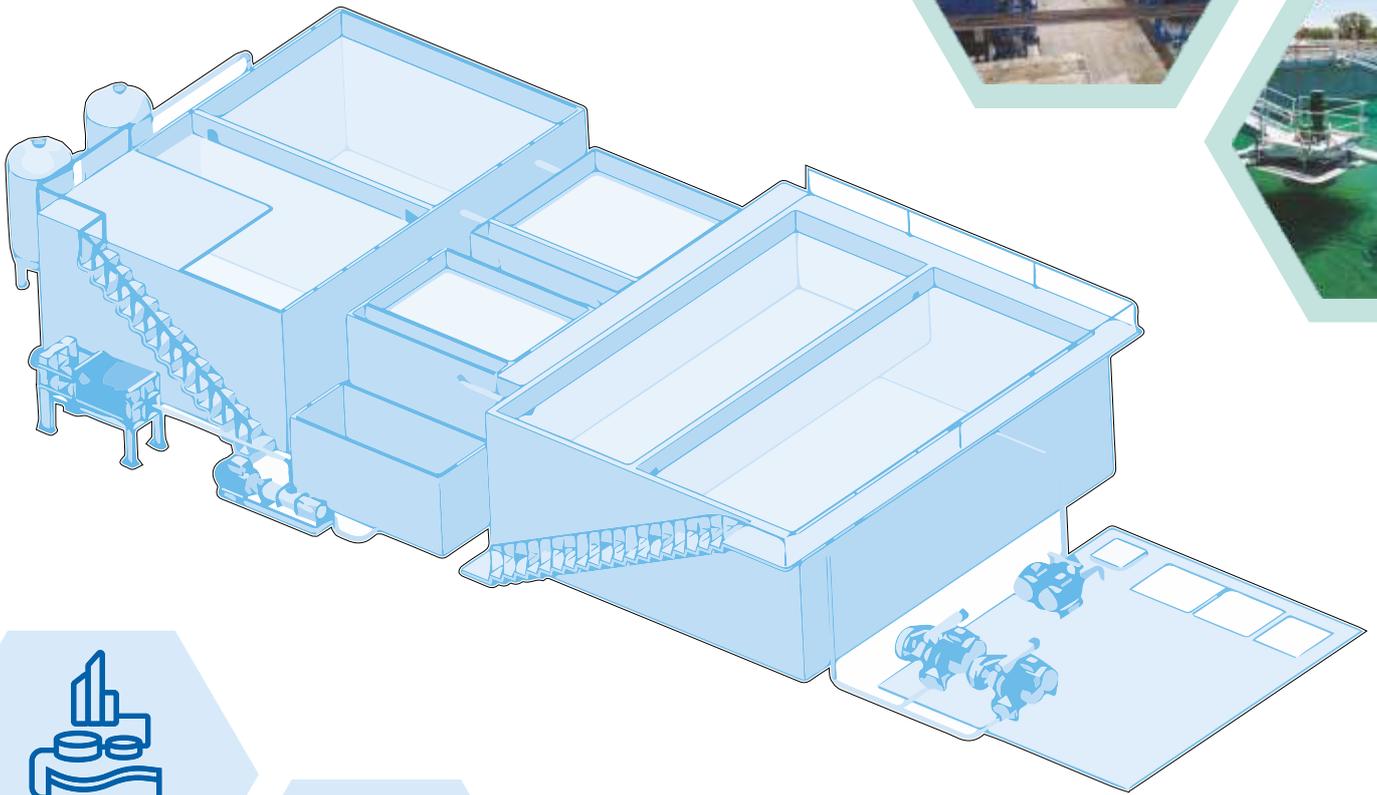


WATER & WASTE WATER

TREATMENT SOLUTION



PROJECTS



PRODUCTS



SERVICES

Venza



FROM THE MD DESK

We believe that environmental responsibility is of utmost importance in today's operating environment. Water scarcity and conflicts seriously undermine progress towards achieving the Sustainable Development Goals. Although scarce, water resources are all too often used in an inefficient or unsustainable way and proper treatment and reuse of wastewater is today still rather an exception than the norm. As a consequence, ecosystems are contaminated.

VENZA aims and committed to advancing the ongoing effort to combat water scarcity.

With dedicated focus on the industrial, buildings and the government segments, we continually seek to formulate innovations in technologies and processes to ensure world class solutions and services. Our driven approach, in house qualified team of professionals and in-house manufacturing capability sets us apart, allowing us to consider the best technical and cost effective sustainable solutions available.



OUR MISSION

We believe reuse is vital to the sustainability of water and our mission is to provide efficient, effective, and reliable water and wastewater utility services in a manner that respects the natural environment.



OUR VISION

Giving back to the environment and people, by offering environmentally friendly, innovative treatment solutions.

ENGINEERING

ERECTION
AND
COMMISSIONING

TECHNOLOGY

PLANNING

**SERVICES
OFFERED**

DESIGN

MANUFACTURING

TURNKEY
PROJECTS

INSTALLATION
& PROJECT
MANAGEMENT

WHY VENZA ?

- Nothing comes with a guarantee in life, but “Venza” products comes with the assurance, of the best quality. Every Venza product is produced with high-quality equipment’s from well-trained engineers and is scrutinized under watchful supervision at every step of the manufacturing and testing phase to ensure the highest level of effusiveness and excellence.
- Venza provides world-class technology for water & waste water treatment solutions.
- We understand the unique characteristics of specific water quality streams which is essential for designing a successful water and waste water treatment solutions.
- We provide “**know-how**” to our clients in selecting the proper treatment solutions for their needs.
- Our process-driven approach, qualified team of professionals and in-house manufacturing capability sets us apart, allowing us to consider the best technical and cost-effective solutions.
- Our team works closely with our clients to provide a full range of trouble-free services from concept to commissioning.
- Our entire water treatment systems comply fully with the consent to discharge standards issued by the government agency.

Venza water has profound knowledge of designing water & wastewater treatment systems tailored made to the industrial, building & government segment requirements. integrated treatment solutions for hospitals, industries, government & buildings segment.

Process Water

Filtration Plants - Softening Plants - Demineralization Plants - RO Plants - Iron Removal Plant - UF Systems

Boiler / Cooling Water Treatment

Specially Designed RO Plants - Filtration Plants - Softening Plants

Drinking Water Treatment

RO - Ultraviolet - Water cooler with Built-In R.O - Water Dispenser with Built-in RO

Sewage Treatment

SAFF - MBBR - MBR - SBR - RBC Based system

Effluent Treatment

Physio - Chemical Treatment - DAF - MBBR - MBR

Filtration

Dual Media Filters - Pressure Sand Filters - Iron Removal Filter- Activated Carbon Filters - Fluoride Removal Filter, Arsenic Removal filter

Zero Liquid Discharge

MEE with ATFD

Pressure Boosting (Hydro pneumatic Systems)

Pressure Tank Based Systems - VFD Based Systems- Fixed Speed based System - Variable based System



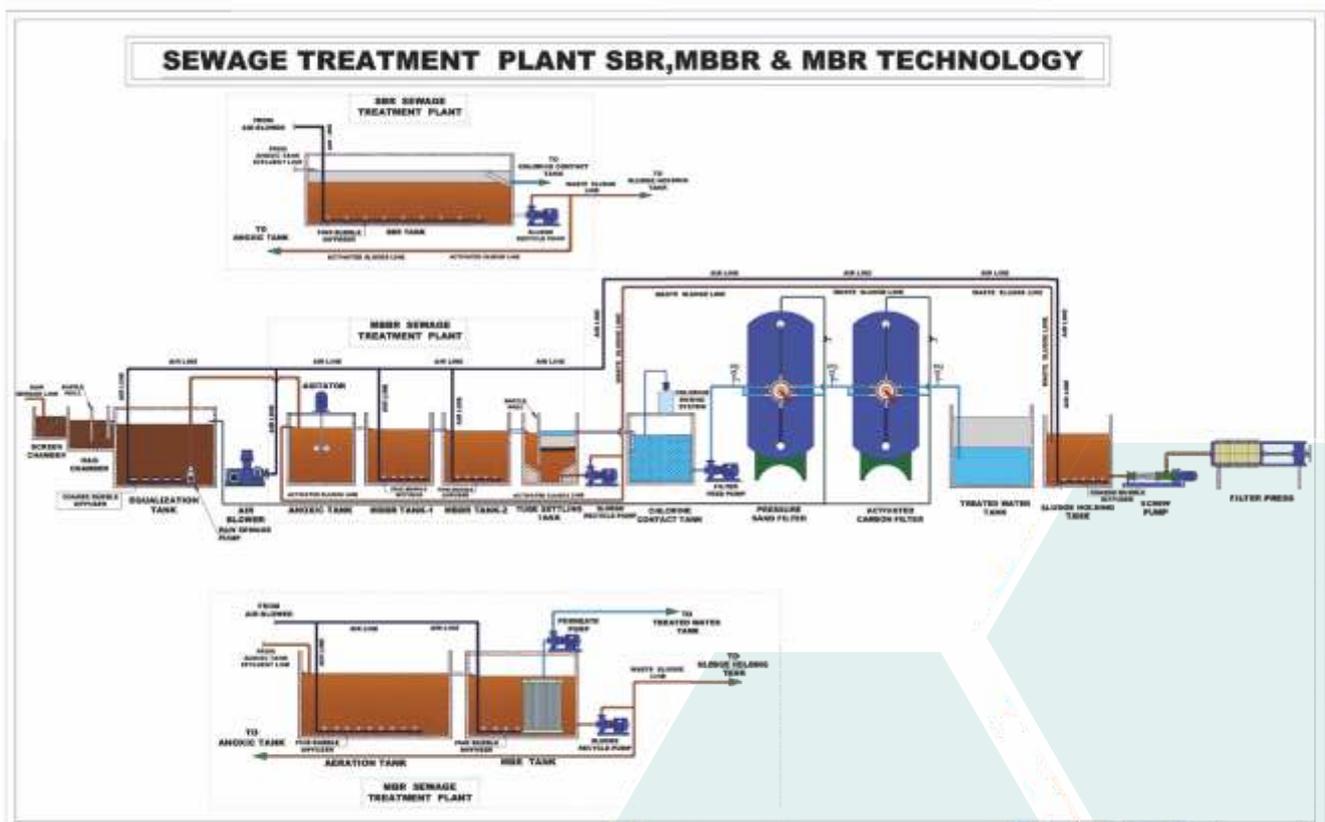
SEWAGE TREATMENT PLANT (STP)

VENZA offers a complete solution for the Sewage Treatment Plant. We have also gained expertise in designing and developing compact sewage treatment plant.

We professionally deal in the following sewage water treatment technologies.

1. Extended Aeration Technology (EA)
2. Sequencing Batch Reactor Technology (SBR)
3. Moving Bed Bio-Reactor Technology (MBBR)
4. Membrane Bio- Reactor(MBR)
5. Rotating Biological Contractor (RBC)
6. Anaerobic Treatment

The Sewage from the residential and commercial buildings is treated for reduction in BOD, COD & TSS in order to comply with the pollution control board standards for disposal in gardening, flushing etc.



EFFLUENT TREATMENT PLANT (ETP)

Effluent Treatment Plants (ETP) cover the mechanisms and processes used to treat waters that has been contaminated in some ways by anthropogenic industrial or commercial activities prior to its release into the environment or its re-use.

Effluent can be treated in 4 stages depending on the quality of effluent and the requirement of the process.

PRIMARY TREATMENT

Physical Treatment
comprises of

- Screening
- Grit Removal
- Oil Separation

PHYSIO CHEMICAL TREATMENT

comprises of

- Chemical Dosing System
- Flash mixer, Flocculators,
- Clariflocculator, Settling Media
- Dissolved Air Flotation System (DAF)

SECONDARY TREATMENT

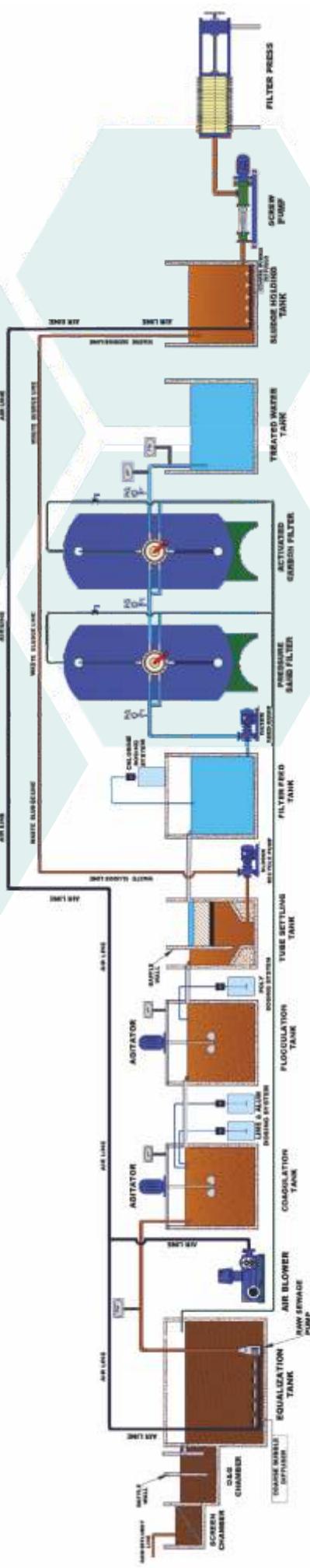
Biological Treatment – MBBR, RBC, MBR, SBR, ASP, ASP.

TERTIARY TREATMENT

- Filtration and Absorption
- UV
- Membrane technologies (UF, NF, R.O)
- Odour Removal System

ZLD

MEE (Multi Effect vaporator)



REVERSE OSMOSIS

“VENZA” Reverse Osmosis Systems

Dedicated to solving the water quality problems of institutes and industries throughout the country, our aim is to ensure the benefits of water treatment are available to everyone-in industries and in the community.

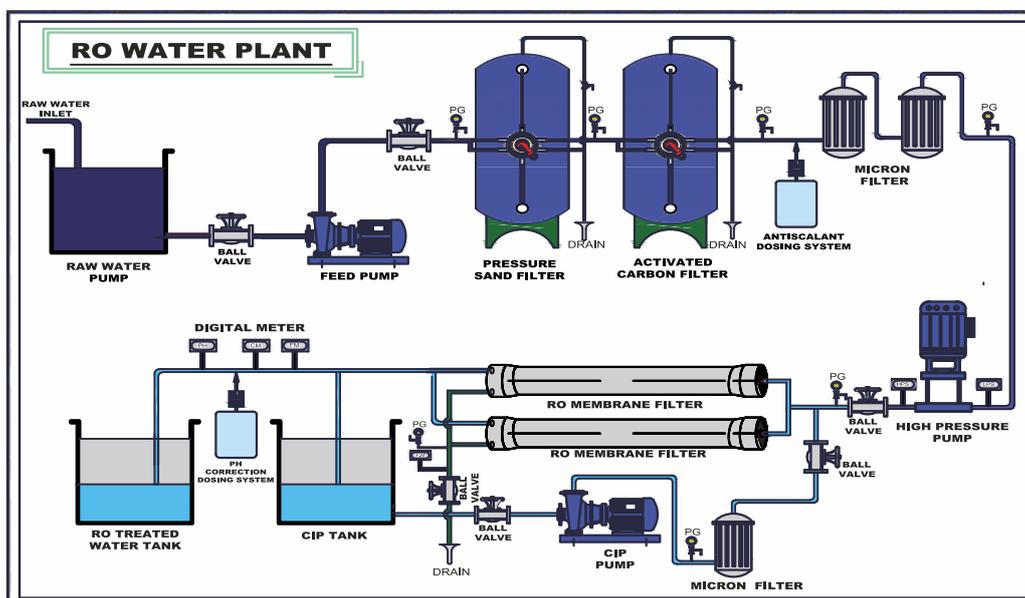
Venza continually develops and manufactures the most innovative water treatment systems. We offer a complete range of products, each tailored to meet the demands of customers.

- **Commercial RO**
- **Industrial RO**

“Venza” can design and supply RO system for ground, well, bore and tap water applications in standard capacities from 50 LPH to 50000 LPH and above with and without UV treatment. They are designed for high efficiency and are simple to operate and maintain.

How Does Reverse Osmosis Works?

The RO process uses a semi-permeable TFC membrane to remove and reject up to 90 to 95% of impurities and contaminants from water. It makes water free from physical, chemical and disease-causing microbial contaminants.



COMMERCIAL R.O

VENZA Pure 50 LPH



Standard Feature :

- 50 Litre/Hour
- CRCA Concealed Body
- Advance Operation Mode. Automatically switches RO+UV or UV base on inlet TDS (Optional)
- Auto Flush
- U.V
- LCD Screen with online TDS Display (optional)
- 7 Stage Purification
- 80 GPD X 4 Membranes
- Fully Automatic

VENZA Pure 100 LPH

Standard Feature :

- 100 Litre/Hour
- CRCA Concealed Body
- Advance Operation Mode.
- Automatically switches RO+UV or UV base on inlet TDS (optional)
- 4 X 150 GPD Membranes
- Fully Automatic
- Auto Flush
- U.V
- LCD Screen with online TDS
- Display (optional)
- 7 Stage Purification



Venza SKID RO150/250



Standard Feature :

For Institutional use of 100-200 persons

- Skid mount compact RO system
- 20" Housing
- 1 Membrane
- UV System, 6 Stage purification
- Multimedia Vessel
- Multiport Valve
- Raw water pump (Optional as per water pressure)

Bag Filter Assembly

We bring forth a wide range of Bag Filter Assembly for our prestigious clients. This product can easily fit in filter and increase the overall life of RO system.



INDUSTRIAL R.O

Standard Feature :

- Outputs available from (150 Litres / Day) to (1000000 Litres / Day)
- Completely assembled / pre-piped / pre-wired Auto start / stop based on water level in the tank.
- Epoxy coated / SS-304 Frame
- Vertical HP Pumps
- TFC membranes
- Liquid filled Pressure gauges
- TDS meter
- Micron Filter
- High / Low pressure cut off switch
- Membrane auto flush system (optional)
- Anti-Scalant dosing system
- Raw and permeate flow meter
- Time delay device for efficient start up
- Automatic Start / Stop with float switch (optional)
- Membranes cleaning tank (optional)
- Automatic Multiport Valve (optional)
- PH Correction dosing system (optional)

****Customized as per client requirement**

****Purified RO water can be dispensed by connecting it to any dispensing unit (water Cooler / Chiller)**



VENZA ARCTIC

Enjoy refreshing drinking water for offices, showrooms, institutions, Hospitals, Stations etc. with the VENZA Arctic - Water Cooler with Built-In R.O. With its industry-leading advanced cooling technology and 7 stage purification. The Venza Arctic will dispense refreshingly chilled and great tasting water anytime you need it.

Standard Feature :

- SS 304 water Cooler
- TFC Membranes
- U.V
- Built-in RO + UV
- Fully Automatic
- 7 Stage Purification
- No of Taps - 2/3
- Auto Flush
- Chilled
- Hot / Cold / Normal (optional)
- 20" Filters



CAPACITY

SS 60/80/50

150/150/150

*Customised

VENZA ARTIC UV



Enjoy refreshing drinking water for offices, showrooms, institutions, Hospitals, Stations etc. with the with advance 3 stage water purification. With its industry-leading advanced cooling technology and 3 stage purification.

Standard Feature :

- SS 304 water Cooler
- Cooling Capacity 60 Litres
- Water Storage Tank Capacity 80 Litres
- No of Taps - 2 / 3
- Fully Automatic
- U.V
- 3 Stage Purification
- Hot / Cold / Normal (optional)

VENZA PURE pR.O

VENZA Pure pR.O makes water better than bottled water and saves the time of replacing costly 20 litres jars. It is a multi-functional machine suitable for homes, offices, showrooms, schools, temples, institutions, etc.

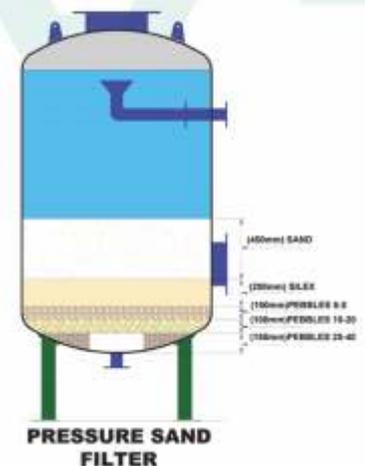
Standard Feature :

- 3 taps Water Dispenser - Hot, Cold and Normal
- Storage Capacity - Hot - 1.5 L , Cold - 5 L Normal- 8 L
- Heating Capacity - 5 LPH
- Cooling Capacity - 10 LPH
- RO Production Capacity 8 Litre/Hour
- Fully Automatic
- Auto Flush
- U.V
- Permissible TDS of Input water < 2000ppm
- 5 Stage Purification



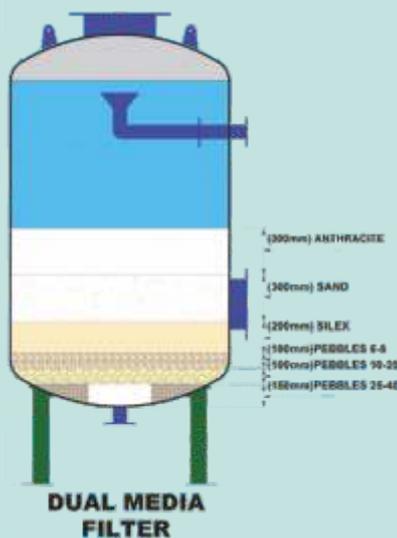
PRESSURE SAND FILTERS

VENZA Water provides pressure sand filters (PSF), which have multiple layers of sand of varied size and specific gravity. A Pressure Sand Filter is used for removal of suspended solids & turbidity from water & wastewater with minimum pressure drop. PSFs operate at lower velocities compared to MGFs. We offer series of filters at a low cost that are reliable and efficient ways to filter your water.



MULTI GRADE FILTERS

A Multi-Grade Filter is used for the removal of suspended solids & turbidity from water & wastewater. **VENZA** offer Series of filters at a low cost, reliable and highly efficient way to filter your water.



A Multi Grade Filter consists of vertical pressure sand filters that contain multiple layers of coarse and fine sand, anthracite, pebbles and gravels in a fixed proportion. It is a filter bed with adequate pore dimensions for retaining both large and small suspended solids and un-dissolved impurities like dust particle Our unique design of Multi

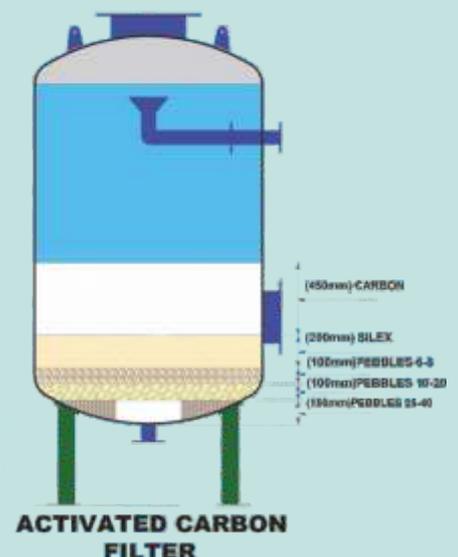
Grade Sand filter ensures the maximum utilization of the surface area, less pressure drop across the filter bed and effective removal of the impurities.

ACTIVATED CARBON FILTERS

VENZA Water offers a wide range of activated carbon filters (ACF) for wide ranging applications to meet specific process requirements.

The ACF works on the principle of adsorption. The media adsorbs or reacts with pollutant molecules as the water is filtered through. ACFs are designed to remove free chlorine, organic matter, odour and colour present in raw water and wastewater. The filter consists of various grades of carbon granules supported by gravel, pebble and sand.

Grades of carbon are used according to the type of treatment required. The activated carbon has the optimum iodine value for effective removal of contaminants.



WATER SOFTENER

VENZA offers a series of pre-engineered packaged softeners to meet the needs of industrial water to eliminate hardness, scaling in piping, boilers, heat exchangers, and other industrial equipment

The offered range of water softening plants is available in different customized specification as per requirements of our clients and also available with manual, semi-automatic and fully automatic operation systems.

Water softeners utilize a strong resin to remove the hardness of water. The high synthetic resin is used to exchange sodium ions with hardness forming Calcium and Magnesium ions. After producing required output, the resin is regenerated with (NACl) sodium chloride solution after which unit is again charged to deliver next batch of soft water. "Venza" softeners are engineering for the most demanding industrial and commercial needs.

Features :

- Softeners are available in rust and corrosion proof FRP as well as mild steel vessels.
- In built ejector system, multi-port valve for compact design.
- Completely automatic systems are also available.



ULTRA FILTRATION (UF) SYSTEM



An ultrafiltration plant is used in both the pre-treatment and post treatment of water. We manufacture and install custom-made ultrafiltration Water systems (UF Systems) from 0.5m³/hr to 100m³/hr. The control system is an advanced microprocessor based system that is very easy to use. The units can be semi-or-fully programmable. UF is extensively used in

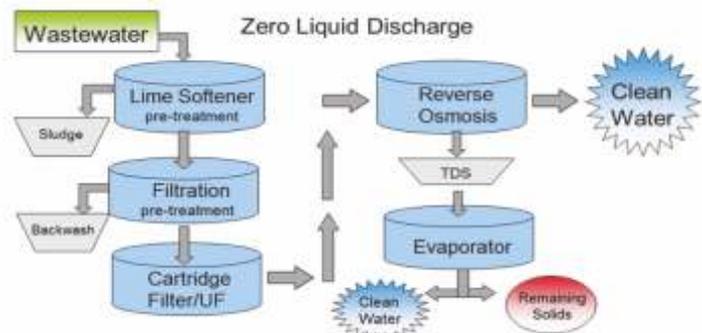
industrial water and wastewater treatment applications. UF membranes are used to remove high molecular-weight substances, colloidal materials, silt, turbidity, organic and inorganic polymeric molecules, algae, particulate matters, suspended solids, and all microorganisms from water & wastewater.

ZERO LIQUID DISCHARGE

In general, the best strategy to clean highly contaminated and toxic industrial waste water is to treat at source and by applying onsite treatment within the production lines when recycling treated effluent.

Therefore, Zero-liquid discharge (ZLD) is a water treatment process in which all wastewater is purified and recycled, leaving zero discharge at the end of the treatment cycle.

ZLD is an advanced wastewater treatment method that includes ultra filtration, reverse osmosis, evaporation/ crystallization. Venza has the expertise to design and build wastewater reduction and ZLD facilities of any size.



Sustainable Water supply is a crisis of future and recycling of waste water is a solution

ORGANIC COMPOST MACHINES

VENZA Compost machine is a fully automated machine which transforms wet waste into organic compost in 24 hrs. It is designed for rapid composting performance. The one-touch control is fully automatic, sensing composting status and providing feedback and control to the operation without the need for constant human supervision.

Benefits & Features :

- Available in sizes from 25 Kg to 1000 Kg
- Waste volume reduction of 75-90%, within 24 hours
- Decomposed waste is nutrient rich compost.
- Fully automated operation
- Power-saving mode. Saves power when machine
- determines that the waste has been composted
- Complete SS body
- Noiseless, Rodents free, Odour free, By product free
Maintenance free





Micron Filter (Spun type)



Carbon filter



Micron filter (String Type)



Float Switch



Micron Filter Housing



Tube settler media



MBBR media



Centrifuge



Fine Bubble Diffusers



Filter Press



Coarse Bubble Diffuser

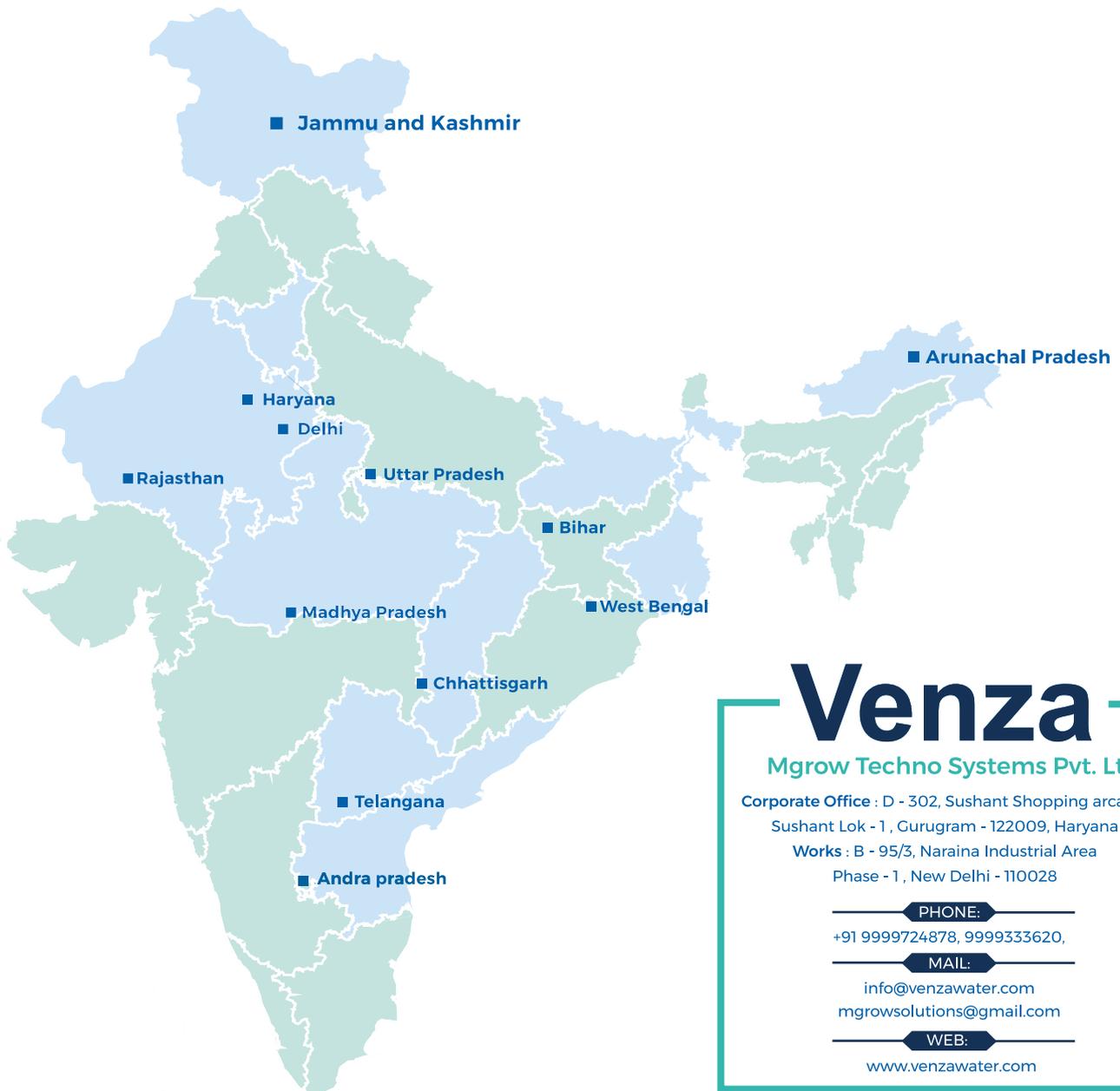


Oil and Grease Skimmer

*Every drop of water
is a blessing of god*



Reuse
Recover
Replenish
Refuse
Responsibility
Reuse
Reduce
Replenish
Responsibility
Reuse
Reuse Recycle
Renival
Reuse



Venza

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