

# Venza

**WATER &  
WASTE WATER**  
Treatment Solutions



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

STP

RO

ETP

WS

UF

## Introduction

In view of the importance of emerging and promising sector of water saving, recycling, and conservation, we have set up a special purpose vehicle as **"Venza"** with vision of promoting water and waste water treatment solution with end to end consultancy and execution services.

Ours is an apex organization which aims of maintaining a very high standard of quality, right from the manufacturing facilities to the after sales services and serve the interests of the consumers by making them its highest priority. The company's expertise lies in the manufacturing of domestic, commercial and industrial plant for all kinds of applications.

Integrity and resourcefulness, being the two key characteristics of the company, helps it in maintaining the state of the art technology in designing the most effective water and waste water treatment solution as per consumer needs and demands. With sincere and dedicated efforts of the management and employees, the company has been able to continuously serve and happier large number of consumers.



AN ISO 9001:2015 Certified Company

## Venza-WATER MANAGEMENT SOLUTION PROVIDER

- Specialized to provide comprehensive and integrated solution from "concept to commissioning"
- Our know how, experience & commitment is unparalleled in terms of quality time delivery & close monitoring of projects for the total satisfaction of our clients.
- Our key strength is, in house manufacturing base. We stock locally consumable & parts required for the maintenance of plant/system.
- Our services that are of highest standard are available round the clock at very competitive rate.
- Lastly we work as partner, consultant & performance system integrator, by offering solutions under "SINGLE WINDOW".

## AREA OF SPECIALIZATION

- "Venza" Water solution provides complete water solution for turnkey project. At the initial phase, we critically analyze specific requirement of the client and accordingly design the system.
- "Venza" team is bunch of professionals from the industry having unmatched experience in designing, installation, commissioning and after sales service.
- "Venza" team specializes in delivering products, innovative technologies and services to its customers in the field of water treatment management for all application & categories.

**Sustainable Water  
Supply is a  
Crisis of Future  
And Recycling of  
Waste Water is  
a Solution**



## Why Venza?

Nothing comes with guarantee in life, but "Venza" products comes with assurance, of best quality. Every Venza product is produced with high quality equipments, from well trained engineers and is scrutinized under watchful supervision at every step of manufacturing and testing phase to ensure the highest level of effusiveness and excellence.

- Venza provides world class technology for water & waste water treatment solution.
- We understand the unique characteristics of specific water quality stream which is essential for designing a successful, water treatment solution."
- The promoter are having experience of more than 30 years in designing operating and implementing of water and waste water treatment system.
- We provide know-how to client in selecting the proper treatment solution 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 available.
- We undertake full responsibility for the project, providing equipment and solution for the individual elements of water and waste water management.
- Our team works closely with our clients to provide a full trouble free services from concept to commissioning including water audit.
- Our all water treatment system comply fully with the consent to discharge standards issued by the government agency.

## Our Vision

Giving back to the environment and people, by offering best water & waste water, environment friendly innovative treatment solution.

## Water Treatment Plant

- Reverse Osmosis
- Water Filtration plant
- Softening Plant
- Iron Removal
- Water Cooler With Built In Ro
- Water Dispenser With Built In Ro

## Waste Water Treatment Plant

- Sewage Treatment Plant
- Effluent Treatment Plant
- Packaged Sewage Treatment Plant

DURABILITY

RELIABILITY

SUSTAINABILITY

## Sewage Treatment Plant (STP)

Venza is offering a complete solution for the Sewage Treatment Plant. We have also gained expertise in designing and developing compact sewage treatment plants.

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. Electro chemical technologies (for small sized institutions)

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.

The sewage treatment plants are available in RCC constructed designs for commercial and residential buildings as well as Mild Steel FRP Lined and Fibre constructed tanks for easy installation and commissioning.

### Application

- Industries
- Hotels & Resorts,
- School & Institutions
- Township
- Restaurants

### Salient Features

- Custom-made technology to suit rigorous site conditions.
- Low operating & maintenance cost .
- Trained team for installation & after sales service.
- Environment friendly systems.
- Energy efficient.
- Water recycle for Gardening, Cooling Tower, Toilet Flushing etc.
- Low foot print .





## Effluent Treatment Plant (ETP)

Effluent Treatment Plant (ETP) covers the mechanisms and processes used to treat waters that have been contaminated in some way by anthropogenic industrial or commercial activities prior to its release into the environment or its re-use. Most industries produce some wet waste although recent trends in the developed world have been to minimize such production or recycle such waste within the production process.

However still many industries remain dependent on processes that produce waste waters. **Venza** manufacturer complete line of ETP including biological treatment of liquid, solids separation systems, dewatering equipments & instruments.

We have professional experts to deal in the following effluent treatment of technology :-

- Physico chemical treatment
- Biological treatment
- Aerobic treatment plant
- Activated sludge treatment plant
- Extended aeration system
- Diffused Aeration system

### Application

- Iron and steel industries
- Hospitals
- Dairy
- Mines and queries
- Food and Beverage
- Pulp and paper industries
- Automobile

### Expertise

- On site visit and design accordingly
- Project management
- Designing Installation and Maintenance
- Civil and Electro-Mechanical work
- Commissioning of the plant including training to operators
- After sales service and AMC



UNIQUE WATER AND WASTE WATER TREATMENT SOLUTION  
UNDER ONE ROOF FOR DIVERSE INDUSTRIAL AND MUNICIPAL  
CORPORATION.

## Water Softner

**Venza** offer a series of pre- engineered packaged softener to meet the needs of small and medium industries. The offered range of water softening plants are available in different customized specification as per requirement of our client and they are available as manual, semi - automatic and fully -automatic.

The water softeners utilize a strong resin to remove the hardness of water. The high synthetic resin is used to exchange sodium ion 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 ready 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.
- In built ejector system, multi port valve for compact design.
- Completely Automatic systems are also available.

## Application

- Pre- Treatment
- Home, Bungalows and Apartments
- Process water for manufacturing plants
- Boiler feed water and cooling tower
- Hospitals, hotels, laundries, institutes etc
- Beverage and food processing unit
- Air conditioning plant.
- Textile processing.





## Ultra Filtration (UF) System

Ultra filtration (UF) is a variety of membrane filtration in which forces like pressure or concentration gradients leads to a separation through a semi permeable membrane. Suspended solids and solutes of high molecular weight are retained in the so-called retentive, while water and low molecular weight solutes pass through the membrane in the permeate. This separation process is used in industry and research for purifying and concentrating macromolecular solutions, especially protein solutions. Ultra filtration is not fundamentally different from micro filtration, nano filtration or membrane gas separation, except in terms of the size of the molecules it retains - it is defined by the Molecular Weight Cut Off (MWCO) of the membrane used. Ultra filtration is applied in cross-flow or dead-end mode.

### Drinking Water.

UF can be used for the removal of particulates and macromolecules from raw water to produce potable water. They have been used to either replace existing secondary (coagulation, flocculation, sedimentation) and tertiary filtration (sand filtration and chlorination) systems employed in water treatment plants or as standalone systems in isolated regions with growing populations. When treating water with high suspended solids, UF is often integrated into the process, utilizing primary (screening, flotation, and filtration) and some secondary treatments as pre-treatment stages. UF processes are currently preferred over traditional treatment methods for the following reasons:

- No chemicals required (aside from cleaning)
  - Constant product quality regardless of feed quality
  - Compact plant size
  - Capable of exceeding regulatory standards of water quality, achieving 90-100% pathogen removal
  - UF processes are currently limited by the high cost incurred due to membrane fouling and replacement. Additional pre-treatment cases of feed water is required to in prevent excessive damage plants to the membrane units.
- In many cases UF is used for pre filtration in reverse osmosis plants to protect the RO.

**“Venza”** high performance ultra filtration are designed with inside – out flow configure, the inside surface of the capillary. Membrane remains completely clean during the manufacturing process, providing uniform fiber structure. The plant are defect free, & low folding tendency, Robustness and high surface integrity throughout the fiber. “

Ultra filtration, like reverse osmosis, is a cross-flow separation process. Here liquid stream to be treated (feed) flows tangentially along the membrane surface, thereby producing two streams. The stream of liquid that comes through the membrane is called permeate. The type and amount of species left in the permeate will depend on the characterizes of the membrane, the operating conditions, and the quality of feed. The other liquid stream is called concentrate and gets progressively concentrated in those species removed by the membrane. In cross- flow separation, therefore, the membrane itself does not act as a collector of ions, molecules, or colloids but merely as a barrier to these species

Custom Built Integrated Composite Plant Consists of **Ultra Filtration + Reverse Osmosis + Ultraviolet** are also available.



## Reverse Osmosis

### "Venza" Reverse Osmosis Systems

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

**Venza** continually develop and manufacture the most innovative water treatment systems. We offer a complete range of products, each tailored to meet the demand of customers.

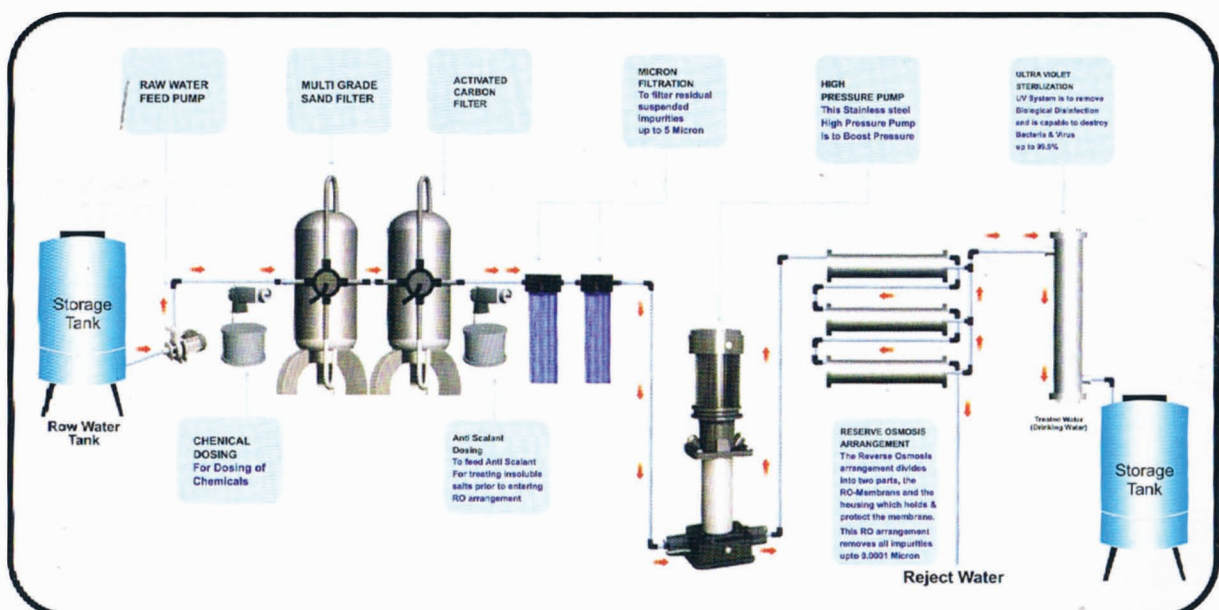
- Domestic Water Purifier
- Commercial R.O. Water Purifier
- Industrial R.O.

"Venza" can design and supply RO systems for ground, well, bore, and tap water applications in standard capacities from 10 LPH to 50000 LPH and above with and without UV treatment.

**Venza** RO Plants are factory assembled, tested and is ready to operate condition. 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.





## Domestic RO

### Features :-

- RO+UV+UF+TDS Controller
- 7 stage purification
- Added Minerals
- Tank storage capacity - 10 liter
- Upper TDS up to 1500 ppm
- Fully automatic system
- Auto cut-off on low water pressure
- Wall mounted compact design



VENZA PLATINUM

## Commercial RO

### RO 10/15/25 LPH

#### Standard Features :-

- For Institutional use of 5-30 persons
- Skid mounted compact RO System
- 10" Housing
- Membranes of 75 GDP, 1 Pump
- Fully Automatic, 5 stage purification
- UV (Optional)
- Permissible TDS of input water < 1500ppm



### RO 50 LPH

#### Standard Features :-

- Capacity: 50 Liter/Hour
- Compact RO system
- 20" Housing
- 4 Membranes of 80 GDP
- Full Automatic, 7 Stage purification
- Permissible TDS of input water < 2000ppm



### RO 100 LPH

#### Standard Features :-

- Capacity: 100 Liter/Hour
- For Institutional use of 100-200 persons
- Skid mounted compact RO system
- 20" Housing
- 1 Membrane
- UV System, 5 Stage purification
- Multimedia Vessel(Optional)
- Multiport Valve(Optional)
- Raw water pump (Optional as per water pressure)
- Permissible TDS of input water < 2000ppm



## Industrial RO

### Standard Features :-

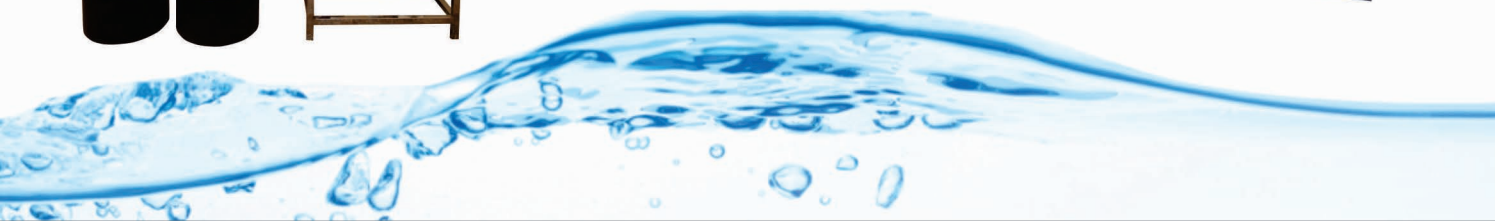
- Outputs available from (150 Liters/Day) to (1000000 Liters/Day)
- Completely assembled / pre-piped / pre-wired Auto start / stop based on water level in the tank
- Epoxy coated frame / SS-304
- Centrifugal H.P. Pumps / Vertical H.P. Pumps
- TFC membranes
- Liquid filled high/low pressure gauges
- T.D.S. meter
- Commercial Filters
- High / low pressure cut off switches for High pressure Pumps safety
- Membrane auto flush system (Optional)
- Anti-scalent
- 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)

( \*\*Customized as per client requirement )

\*\*Purified RO water can be dispensed by connecting it to any dispensing unit (Water Cooler/Chiller/Dispenser) and ENJOY effective, economical cold water

### Application:-

- Homes
- Offices
- Residential use offices
- Showrooms
- Business locations
- Shopping centers
- Hotels
- Clinics
- Pubs
- Hospitals
- Restaurants
- Health Clubs
- Schools
- Farm Houses
- Educational
- Bungalows





## Venza Arctic

Enjoy refreshing drinking water for offices, showrooms, institutions, Hospitals, Stations etc. with the Arctic SS 6080 – Water Cooler with Built-In Water Purifier

With its industry-leading advanced cooling technology and purification, the **Venza** arctic will provide great tasting water anytime you need it.



## Technical Specification :-

Venza Arctic RO		
Model	ARCTIC SS6080	SS/ 150 150
Cooling Capacity	60 LPH	150 LPH
At 10°C temperature drop LPH	100	240
Storage Capacity	80 Liters	150 Liters
Refrigerant	R-22	
Unit Dimensions	1335 x 695 x 545 ±5 mm	1560X840X660 ±5mm
No. Of Faucets	2	2
Power Supply	230 V ± 10 % , 50 Hz, Single Phase AC	
Material Specification		
Chiller Tank	Stainless Steel SS 304	
Outer Sheet Metal Panels Material		
Top Lid	Stainless Steel 304	
Front/Rear Panel Top		
Front/Rear Panel Bottom		
Side Panels		
Drip Tray	Stainless Steel SS 304	
Faucet Material	Brass( Cr plated )	
Condenser Tubing/Fins	Grooved copper/Blue Aluminium fins	
Permate Capacity/Hour	50 LPH	150 LPH
No Of Filtration Stages	7	7
	20" Pre Filter -> 20" Sediment Filter-> 20" Pre Carbon Filter-> RO Membrane -> Ultra Filtration->UV-> Nano Silver Alkalizer	
	** Antiscalant to enhance the membrane life	
Auto Flushing	Provided	
Input Water Conditions	TDS <1500ppm	
Membrane	80 GPD X 4 nos	100 GPD X 1 No + 300 GPD X 2 Nos.

## Venza Pure pR.O

Water dispenser with inbuilt RO + UF+ UV water purifier

### DISPENSER FEATURES:

- Microprocessor control (optional)
- Easy access all the controls and filter cartridges
- Independent Hot/Cold power switches
- Built-in RO system
- Cold and Hot water supply



### R.O FEATURES:

- Spun Polypropylene Cartridge
- TFC membrane
- In-line Sediment filter
- In-line Carbon
- Ultra Violet
- Fully assembled
- Automatic tank full control
- Booster pump

## Venza U.V. Water Purifier

Venza offers Domestic & Commercial wide range of UV Water Purifier, we offer high quality domestic & commercial UV systems from 10 Lts/ hour up to any desired capacity flow rate.

### Venza Arctic UV



#### Features :-

- High UV output for better disinfection.
- Ease of installation.
- Lamp is easily removed and replaced for annual maintenance.
- Easily fitted with water cooler and water dispenser.
- Greater than 99.9% kill rate.
- No chemicals added to the water.

### Venza Pure UV



#### Purification Stages :-

- Pre filter
- Sediment Filter
- Carbon Filter
- UV Water disinfection



## Zero Liquid Discharge (ZLD)

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

Many plants in the manufacturing industry are turning to water efficiency initiatives aimed at recycling water from waste streams for reuse in plant processes to help multistage water security related risks. Extending the water reuse concept further, important trend in the industry is the increasing adoption of zero liquid discharge (ZLD).

Zero-liquid discharge (ZLD) is a water treatment process in which all wastewater is purified and recycled; therefore, 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.

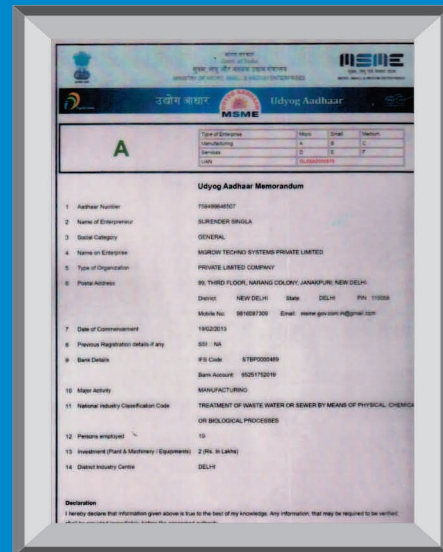
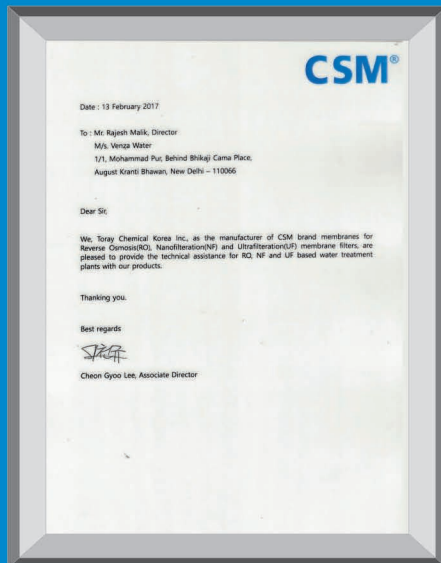
Venza has the expertise to design and build wastewater reduction and ZLD facilities of any size.

## Treatment Process

- Primary clarifications
- Biological process
- Secondary clarifications.
- Tertiary treatment
- Polishing units i.e. UF, RO and DM



## Certifications







**Sediment Filter**



**Carbon Filter**



**Booster Pump**



**UF**



**Float Switch**



**UV**



**Membrane Housing**



**Filter Housing**



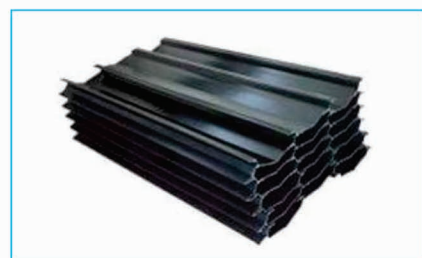
**Float Switch**



**Fine Bubble Diffuser**



**MBBR MEDIA**



**Tube Settler Media**



**Coarse Bubble Diffuser**



**MS Vessel**



**Filter Press**



reuse  
recycle  
recycle  
reduce  
reuse  
recycle  
reduce  
reuse

# Venza

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