

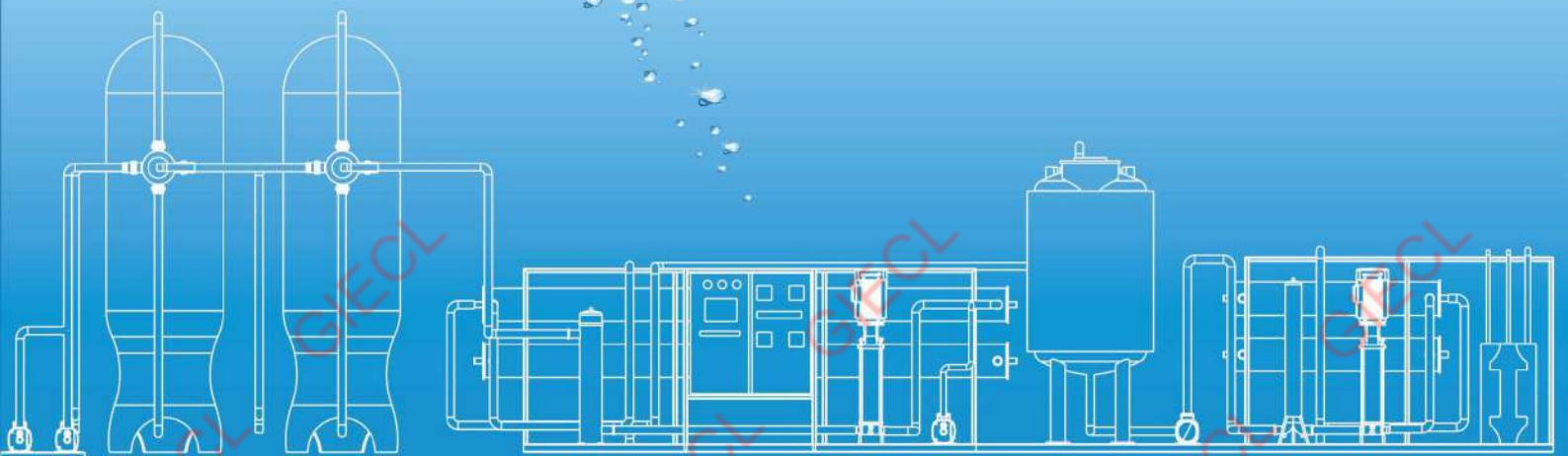


GUJARAT ION EXCHANGE AND CHEMICALS LIMITED

AN ISO 9001 : 2015 Company



WATER TECHNOLOGIES



About Us

GUJARAT ION EXCHANGE AND CHEMICALS LIMITED is a well-established company in water and wastewater treatment field. GIECL came to existence in 1996 to market specially Water & Wastewater Treatment plants. With increasing demand in Indian and International Market, we made it sure that the availability and the marketing of products with technical support and imperative need are properly handled. We have a distinct role to play in the successful commissioning and smooth running of the projects. Our activity, besides marketing of our products revolves around supporting, guiding, assisting and providing timely supplies to our clients. We support them in selecting the right systems to enhance the performance of our Water and Wastewater Treatment plants with our full after Sales and Service backup.

Vision

We are committed to creating a very pleasant experience for our customers through flexible, appropriate and reliable Water Treatment solutions driven by most ethical and professional standards.

We will develop mutually rewarding relationships with our customers, employees and suppliers in order to create leadership, sales, profit, and value for all stakeholders. Consequently, GIECL will ascend to leadership sales, profit, and value creation.

Mission

GIECL is holding a prestigious place in Indian & International market with end number of projects worldwide & a huge knowledge because of the different kinds of Treatment Application with our own research and development in water chemistry.



Vyomesh Patel (M.D.)



Admin Division

Product Range

- ▶ Pure Water Generation System
- ▶ Distribution & Loop System
- ▶ Brackish Water RO System
- ▶ Containerized RO System
- ▶ Sea Water Desalination Plant
- ▶ Sewage & Effluent Treatment Plant
- ▶ Industrial RO Plant
- ▶ Automatic Turnkey Mineral Water Project
- ▶ Mineral Water Plant with Added Mineral
- ▶ Spring Water Filtration System
- ▶ Ultra-Filtration System (UF)
- ▶ Alkaline & Flavored Water Project
- ▶ Soft Drink & Juice Project
- ▶ Softening Plant
- ▶ Filling Machine for Water, Soda, Juice
- ▶ 5 Gallon Water Project – 20 Liters
- ▶ PET Blow Moulding Machine
- ▶ MBR System
- ▶ DM Plant
- ▶ Mix Bed Unit
- ▶ ZLD System



Production Division



Assembly Floor

Pre-treatment Overview

Before filtration using Chlorination or Ozonation System for remove of Yeast and Mold – Alge, Microbiological Contamination from water.

Automatic / Semi-automatic Pre-treatment system using Multimedia Filtration, Activated Carbon Filtration or Softener for highest level of quality filtered water which will terminate the Turbidity, Colour, Odour, Organic Impurities and Hardness.

Micron Cartridge Filter for removal of micron impurities greater than 5 micron present in water. The housing with PP Wound Filter inside with 5 micron and 1 micron rating in series.



RO Overview

Reverse Osmosis Plant is widely used for removal of dissolve chemical impurities from Brackish & Seawater. Reverse Osmosis is the process of forcing a solvent from a region of high dissolve solids concentration through a membrane to a region of low dissolve solids concentration by applying a pressure in excess of the osmotic pressure. The semi permeable membranes used for Reverse Osmosis have a dense polymer barrier layer in which separation takes place.

GIECL RO Plants are available in flowrates from 0.25 M3/hr. to 400 M3/hr. Using high quality 4 & 8 inch semipermeable membrane and equipments for variety of applications.



UF Overview

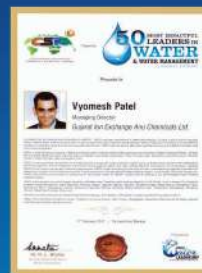
Ultrafiltration (UF) is an important purification technology used to produce high purity filtered water in the many industries when strategically combined with other purification technologies in a complete Water & Wastewater system. UF membranes used to remove high molecular-weight substances, colloidal materials, silt, turbidity, organic / inorganic polymeric molecules, suspended solids and all microorganisms from Water & Wastewater which is very useful for further available treatment.



EDI Overview

EDI design combines two well-established water purification technologies electro dialysis (ED) and ion-exchange resin deionization. Through this revolutionary technique, dissolved salts can be removed with low energy cost and without the need for chemical regeneration; the result is high-quality pure water of multi-MΩ-cm resistivity which can be produced continuously at substantial flow rates.

The Electro-Deionization process uses a combination of ion-selective membranes and ion-exchange resins sandwiched between two electrodes (anode (+) and cathode (-)) under a DC voltage potential to remove ions from RO-pre-treated water.





Water Filtration System with Multimedia Filtration and 1000 IV High Grade Norit Activated Carbon for High Quality Filtered Water to feed R.O. System



67.0 M3/Hr. 1" Pass and 50.0 M3/Hr. 2" Pass Fully Automatic Most Advanced Featured RO System for Ultra-Pure Water Generation using ultra sonic Flow meters, online pH & TDS Controller, VFD Driven Grundfos Pump with Full HMI Controlled PLC Panel



25.0 M3/Hr. Two Pass R.O. System for Beverages Industries

Water Treatment Plant		
Model	Type	Capacity
GIECL 1K BW/SW	Manual	1000 LPH
GIECL 2K BW/SW	Manual	2000 LPH
GIECL 6K BW/SW	Manual	6000 LPH
GIECL 10K BW/SW	Auto / Manual	10,000 LPH
GIECL 15K BW/SW	Automatic	15,000 LPH
GIECL 20K BW/SW	Automatic	20,000 LPH
GIECL 25K BW/SW	Automatic	25,000 LPH
GIECL 50K BW/SW	Automatic	50,000 LPH
GIECL 100K BW/SW	Automatic	100,000 LPH



15.0 M3/Hr. RO System with Multi grade filter and activated carbon filter for Township & communities supply



20.0 M3/Hr R.O. System for Boiler, Cooling Tower and Processing



10.0 M3/Hr. Brackish Water Containerize RO System for Civic Supply on Island for drinking and Household application



4.0 M3/Hr. R.O. System for Food & Dairy Industries



3.0 M3/Hr. R.O. System with U.V. System for Drinking Water in Institution, Hospital, Soft Drinking, Juice, Bakery Application



1000 LPH Economical R.O. System in FRP for Drinking application

SILENT FEATURES

- Complete Skid Mounted System
- Treatment Based on MMF, SOF, UF,
- CSRO / HSRO, CSEDI / HSEDI
- Lowest Footprint
- 0.25 M3/Hr. to 25.0 M3/Hr.
- Lowest Reject Water
- WHO, GMP, USP WFI, Standard
- HMI Control
- Lowest OPEX & CPAEX
- 24*7 Service Backup
- Validation Document DQ, FAT, IQ, OQ, SOP
- Turnkey Solution Water Generation & Distribution



6.0 M3/Hr. Pre-treatment



3.0 M3/Hr. First Pass C.S.R.O. System

High Purity Water Generation System



1.2 M3/Hr. Second Pass H.S.R.O System with 1.0 M3/Hr. H.S. EDI System



500 LPH Ultra-Pure Water Generation System based on CSRO with HSRO and HSEDI System



9.5 M3/Hr. Pure Water Generation System Base on Two Pass RO System with EDI - ION PURE



4.0 M3/Hr. Pure Water Generation System Base on CSRO + CSRO with EDI System



1000 LPH Ultra-Pure Water Generation System



3.0 M3/Hr. Two Pass R.O System with Ultra Pure water production for Pharmaceutical factory



2.0 M3/Hr. Pure Water Generation System for WFI Standard in Pharma industries

High Purity Water Generation System (250 LPH, 500 LPH, 1000 LPH, up to 25000 LPH)			
Treatment Scheme			Product Quality
C.S.R.O.	H.S.R.O.	H.S. EDI	<1.3 ms/cm
C.S.R.O.	C.S.R.O.	C.S. EDI	<1.3 ms/cm
C.S.R.O.	C.S.R.O.	Mix Bed	<2.0 ms/cm
C.S.R.O.	D.M Plant	Mix Bed	<5.0 ms/cm



Distribution & Loop System for Pharmaceutical Industries



8.0 M3/Hr. Pure Water Generation System Base on Pre-treatment+CSRO+CSRO+MB



DM Plant + MB Unit + UV + MCF Low Cost Solution



Water for Injection (WFI) System



Clarifier for Sea Water & STP & ETP plant



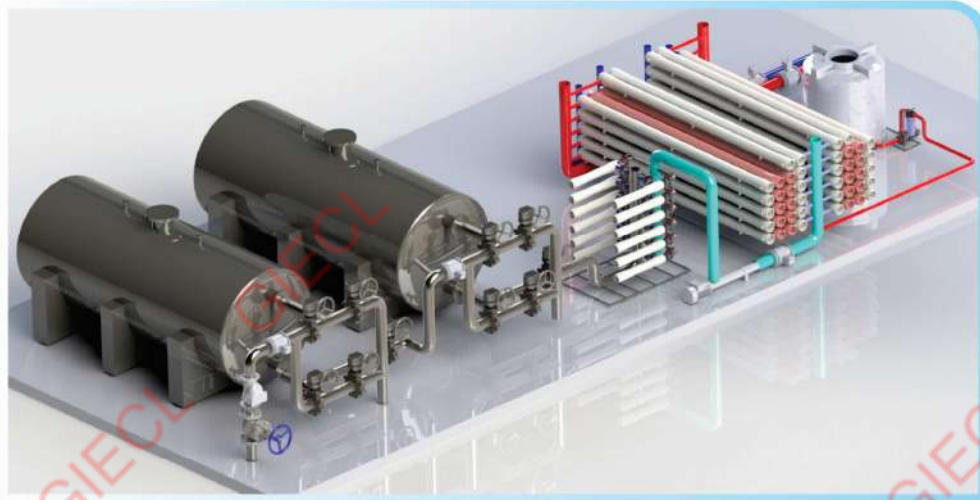
Ultra-Filtration System (UF)



400.0 M3/Hr. Sea Water Desalination R.O. Plant



STP Plant 500 KLD



Sea water Desalination plant with Horizontal Multi Grade Filter & Carbon Filter, MCF, HPP with ERD,R.O. System with CIP System



MBR System for ETP & WTP Plant



UF for ZLD System



50 LPH Small RO Plant For School, Camp, Bakery



MMF + ACF + SOF - 30.0 M3/Hr.



15.0 M3/Hr. Spring Water Filtration System with Having 7 Stage Filter for High Grade Bottled Water



Sea Water Treatment Plant Based on Two Pass RO System with Micron Filter, High Pressure Pump, Digital Flow Meter, Digital TDS & pH meter



Pentair Equipment Authorised Partner



Turnkey Mineral Water Bottling Project

Model	Type	Capacity
GIECL 30 BPM	Semi-Automatic	1800 BPH
GIECL 40 BPM	Semi-Automatic	2400 BPH
GIECL 60 BPM	Fully Automatic	3600 BPH
GIECL 90 BPM	Fully Automatic	5400 BPH
GIECL 120 BPM	Fully Automatic	7200 BPH
GIECL 150 BPM	Fully Automatic	9000 BPH
GIECL 200 BPM	Fully Automatic	12000 BPH
GIECL 300 BPM	Fully Automatic	18000 BPH



18,000 BPH Automatic Turnkey Water Bottling Project



20,000 LPH S.S 316 Mineral Water Plant with Online Mineral Adding System for High Purity Bottled Water



2400 BPH – 24000 BPH Fully Automatic Rotary 3 in 1 Rinsing, Filling and Capping Machine with Cap Hopper, Loader, Online Cap Washing and Conveyor



Fully Automatic 10 – 35 Packs per minute Automatic Shrink Group Packing Machine with or without Tray, Hard Board



6000 BPH Fully Automatic PET Blow Moulding Machine for Empty Bottle Production



Utilities / Auxiliaries for Bottling Project Such as High- & Low-Pressure Compressor, Chiller, Air Dryer, Filters, Air Receiver Tanks, Cooling Tower, MCCB-LT Panel, APFCR Panel

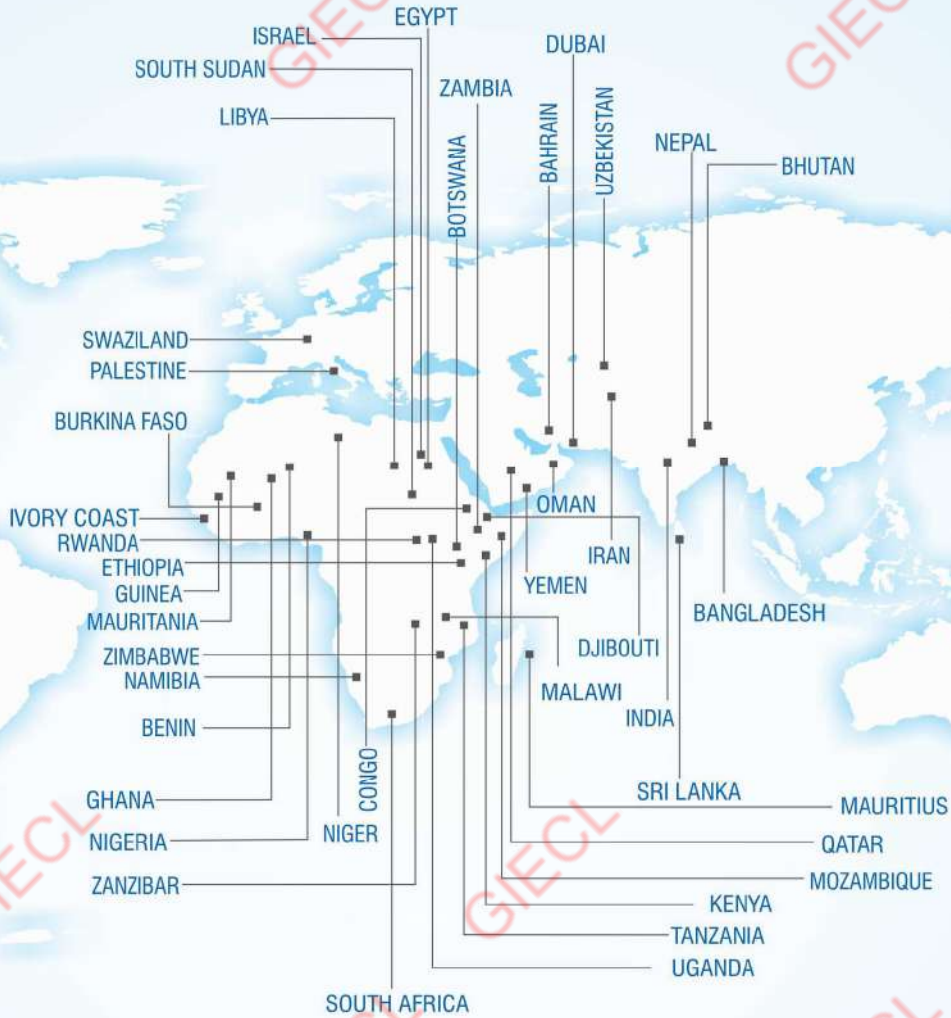


60 BPM – 300 BPM Automatic BOPP Labelling Machine for High Quality Bottled Water.



300 JPH-5 Gallon RFC Machine

OUR ELITE CLIENTS : ACROSS THE GLOBE



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