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 specialty 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 their 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 an 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.

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
- MCR System
- CM Plant
- Mix Bed Unit
- 71 NP System

Pre-treatment Overview

Before filtration using Chlorination or Ozonation System for removal 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.

UF Overview

Ultrafiltration (UF) is an important purification technology used to produce high-purity filtered water in 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 electrodialysis (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-MO-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.

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.
### Water Treatment Plant

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>GECL 1K BW/SW</td>
<td>Manual</td>
<td>1000 LPH</td>
</tr>
<tr>
<td>GFD1 7K BW/SW</td>
<td>Manual</td>
<td>3000 LPH</td>
</tr>
<tr>
<td>GECL 6K BW/SW</td>
<td>Manual</td>
<td>6000 LPH</td>
</tr>
<tr>
<td>GECL 10K BW/SW</td>
<td>Auto / Manual</td>
<td>10,000 LPH</td>
</tr>
<tr>
<td>GECL 15K BW/SW</td>
<td>Automatic</td>
<td>15,000 LPH</td>
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<tr>
<td>GECL 20K BW/SW</td>
<td>Automatic</td>
<td>20,000 LPH</td>
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<tr>
<td>GECL 25K BW/SW</td>
<td>Automatic</td>
<td>25,000 LPH</td>
</tr>
<tr>
<td>GECL 50K BW/SW</td>
<td>Automatic</td>
<td>50,000 LPH</td>
</tr>
<tr>
<td>GECL 100K BW/SW</td>
<td>Automatic</td>
<td>100,000 LPH</td>
</tr>
</tbody>
</table>

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

67.0 M3/hr. 1st Pass and 50.0 M3/hr. 2nd Pass Fully Automatic Most Advanced Featured R.O. 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

18.0 M3/Hr. Brackish Water Containerize R.O System for Civic Supply on Island for drinking and Household application

15.0 M3/Hr. R.O System with Multi grade filter and activated carbon filter for township & communities supply

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

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

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
### Turnkey Mineral Water Bottling Project

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIECL 30 BPM</td>
<td>Semi-Automatic</td>
<td>1800 BPM</td>
</tr>
<tr>
<td>GIECL 40 BPM</td>
<td>Semi-Automatic</td>
<td>2400 BPM</td>
</tr>
<tr>
<td>GIECL 60 BPM</td>
<td>Fully Automatic</td>
<td>3600 BPM</td>
</tr>
<tr>
<td>GIECL 90 BPM</td>
<td>Fully Automatic</td>
<td>5400 BPM</td>
</tr>
<tr>
<td>GIECL 120 BPM</td>
<td>Fully Automatic</td>
<td>7200 BPM</td>
</tr>
<tr>
<td>GIECL 150 BPM</td>
<td>Fully Automatic</td>
<td>9000 BPM</td>
</tr>
<tr>
<td>GIECL 200 BPM</td>
<td>Fully Automatic</td>
<td>12000 BPM</td>
</tr>
<tr>
<td>GIECL 300 BPM</td>
<td>Fully Automatic</td>
<td>18000 BPM</td>
</tr>
</tbody>
</table>

### 18,000 BPH Automatic Turnkey Water Bottling Project

- **2400 BPM – 24000 BPM Fully Automatic Rotary 3 in 1 Rinsing, Filling and Capping Machine with Cap Hopper, Loader, Online Cap Washing and Conveyor**
- **60 BPM – 300 BPM Automatic BOPP Labeling Machine for High Quality Bottled Water**
- **300 JPH-5 Galon RFC Machine**

### 20,000 LPH 5.5 316 Mineral Water Plant with Online Mineral Adding System for High Purity Bottled Water

- **6000 BPM 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, MCC8-LT Panel, APTOR Panel**

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