G1 Aqua
R-Tech Systems & Services

2026 edition

Water treatment systems

Iron removal filters, softening plants and desalination plants.



Iron Removal Filter



Water Softening Plant

Made in Lucknow since 2004
ISO 9001:2015

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Iron Removal Filter

An automatic filter that takes iron and manganese out of borewell water, so it stops leaving yellow stains and a metallic taste. Treats up to 450 litres an hour with up to 10 ppm of iron; bigger sizes are made to order.

- Brings iron from as high as 10 ppm down below the 1 ppm drinking-water limit in IS 10500.
- Air oxidises the iron, and a sand bed with a catalytic MnO2 layer traps it.

Capacity	**450 LPH**	Removes	**Iron and manganese**
Iron in raw water	**Up to 10 ppm**	Operation	**Automatic backwash**
Technology	**Air oxidation, sand bed with MnO2 layer**	Vessel material	**Stainless steel (FRP on request)**

Photos and details
Scan with your phone camera

Seawater Desalination Plant

A seawater reverse osmosis plant that turns sea water, or very salty borewell water, into safe drinking water. Built to order for coastal towns, resorts, ports and industries.

- Treats seawater with 35,000–45,000 ppm of dissolved salts and brings it down to drinking-water levels.
- High-pressure lines are corrosion-resistant stainless steel, made for constant contact with salt water.

Purification	**Seawater RO**	Feed water TDS	**Up to 45,000 ppm**
Operating pressure	**55–70 bar**	Water recovery	**35–45%**
Capacity	**Built to your daily need**	Pre-treatment	**Multimedia filter, chemical dosing, cartridge filter**

Photos and details
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Water Softening Plant

Ion-exchange water softeners that remove the calcium and magnesium in hard water, so pipes, boilers, geysers and fittings stop scaling up. Single and twin automatic models, in FRP, mild steel or stainless steel.

- Brings hardness down to under 5 ppm, which stops white scale on taps, tiles, geysers and boilers.
- Regenerates with ordinary salt. Twin automatic softeners give soft water round the clock and use about 25% less salt.

Technology	**Ion exchange**	Operation	**Manual or automatic**
Output hardness	**Under 5 ppm**	Regeneration	**Common salt (brine)**
Purification	**Cation exchange resin, sodium form**	Design principle	**Co-current or counter-current**

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Tell us about your water

Send your water source and how much you need a day. We will suggest the right plant and send a quote.

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