
Crystal Drops
Think Pure Think Crystal

About Us

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Corporate Profile

Crystal Drops is a fast-growing service oriented company providing solutions in the field of water technology. We design and implement water treatment solutions that match the specific needs of our clients. Our team of highly qualified technicians with in-depth industry experience, deliver advanced water treatment solutions to a diverse range of applications, including residential colonies, commercial complexes, food and beverage, healthcare, and other industries.



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www.crystaldrops.co.in

OVERVIEW

We are a total water treatment solution providers established in 2016 and headquartered in Bangalore. We believe in sustainable living and our goal is to provide clean and safe water for human use and also for the environment.

BUSINESS MODEL

Total Water Treatment Solution Provider

BRANCHES

Bangalore and Hyderabad

EXPERTISE

Crystal Drops is run by a group of individuals who have 25+years of expertise in water technology.

Our Vision, Mission and Values

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Vision

To be India's most trusted, service oriented brand in providing Total Water treatment solution.



Mission

We strive to offer the best quality product and service to our customers.

Values

Customer first, Commitment, Sustainable, Innovative and Quality

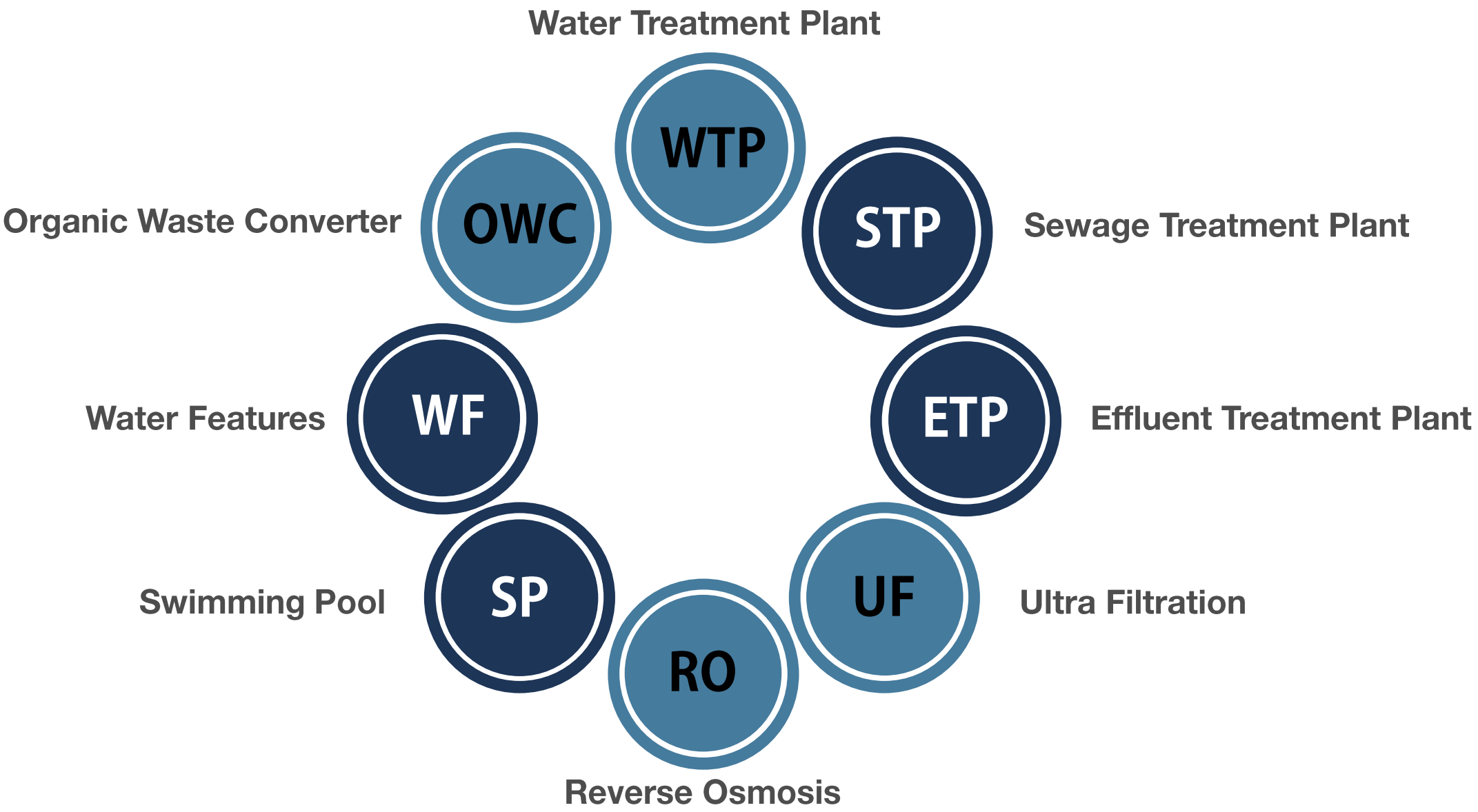
We Stand For

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Our Services

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Water Treatment Plant

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Water treatment is a process that makes water more acceptable for a specific end-use. The end use may be drinking, industrial water supply, irrigation, river flow maintenance, water recreation or many other uses, including being safely returned to the environment. Water treatment removes contaminants and undesirable components, or reduces their concentration so that the water becomes fit for its desired end-use.



FRP - Pressure Sand Filter

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Crystal Drops Fibre Reinforced Plastic (FRP) Pressure Sand Filters & Carbon Filters are designed for deep bed filtration using special graded sand media.



Applications

- *Drinking Water Supplies.*
- *Swimming Pool water filtration.*
- *Pre-treatment for mineral water bottle plants.*
- *Pre-treatment for industrial water treatment plants and RO plants.*

Advantages

- *Light weight and Easy to install.*
- *Low Maintenance cost.*
- *User friendly to operate - it's simplified single Lever Multi-port valve design.*
- *Pre-assembled and tested before shipment.*



Technical Specifications

Crystal Drops FRP Pressure Sand Filter Consists of:

- *FRP Pressure Vessel.*
- *Associated PVC Piping & Multi-port valve.*
- *Filter Media with supporting under bed media.*
- *Carbon Media with supporting under bed media.*
- *Pressure Indicator*

Industrial / Domestic Softener - FRP / MS

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Crystal Drops offers Softener units that are designed for both industrial and domestic use. These units can be operated manually or automatically (optional). These Softeners are available with Mild Steel Rubber lined and Carbon Steel Epoxy Painted options and shall be selected based on inlet water characteristics.



Applications

- *Boiler feed Water.*
- *Beverage Production.*
- *Hospitals, Air conditioning plants.*
- *Pre-treatment to Reverse Osmosis plants.*
- *Domestic application.*

Advantages

- *Light weight and Easy to install and commission.*
- *Low Maintenance cost.*
- *User friendly to operate - it's simplified single Lever Multi-port valve design.*
- *Pre-assembled and tested before shipment.*



Technical Specifications

Crystal Drops FRP / MS Softener Filter Consists of :

- *FRP / MS Pressure Vessel*
- *Salt tank of HDPF/FRP with fittings*
- *Cation Exchange Resins*
- *Ejector*
- *Hardness Test Kit*
- *Multiport/ Individual valve*
- *Sampling valve*
- *Associated Piping*
- *Ejector*
- *Pressure Indicators*

Optional - *One set of fittings for concrete salt saturator, wherever applicable, to be constructed by the client.*

Sewage Treatment Plant

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Sewage treatment is the process of removing contaminants from wastewater, primarily from household sewage. It includes physical, chemical, and biological processes to remove these contaminants and produce environmentally safer treated wastewater (or treated effluent).



Pressure Sand Filter & Activated Carbon Filter

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Crystal Drops offers high quality Pressure Sand Filters by mixing best quality coarse and fine media in right proportions to produce a filter bed with Pore dimensions to support retaining of both large and small suspended particles. These filters are designed to achieve higher flow rates per hour to produce a filtrate with less than 5 ppm (Parts Per Million) for inlet water containing up to 25 ppm suspended solids.

Applications

The PSF / ACF by Crystal Drops is an obvious choice for all applications where a conventional filter is used.

It is extensively used in:

- *Water & Waste Water treatment.*
- *Filtration of clarified water.*
- *High quality Cation polystyrene resins provide stability and longer life.*

These Filters are available with Mild Steel Rubber lined and Mild Steel Epoxy Painted options and shall be selected based on inlet water characteristics..



Advantages

- *Higher flow rates with lesser space and cost.*
- *Low maintenance and operating cost.*
- *Efficient backwash system.*
- *Use of raw water for backwash.*

Technical Specifications

- *Vertical cylindrical vessel made of Mild steel with dish ends, with external protective coat of red oxide paint and internally with anti-corrosive block bituminous paint, including the frontal pipework, valves, filter media, Pressure gauges.*
- *PSF / ACF are available in variants from 200 to 3000 mm diameters.*
- *Carbon Filters are available for removal of Colour, odour and de-chlorination of water.*

Note: Suitable coagulant should be used for effective filtration.

Effluent Treatment Plant

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Effluent Treatment Plant is used to treat waste water which comes from manufacturing industries where different types of chemicals and dyes are used for treating the materials.

After industrial treatment, waste water is discharge to the environment directly and this waste water is harm full for the environment. ETP treats this water and makes it harmless to the environment.



Advantages

- *Capable of removing 97% of suspended solids*
- *Biological nitrification without adding chemicals*
- *Oxidation and nitration achieved*
- *Biological phosphorous removal*
- *Solids and liquids separation*
- *Removes organics*
- *Cost effective*
- *Easily maintained mechanical work*
- *Self sustaining system*

Effluent Treatment Plant

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Applications

- *Electroplating industries*
- *Textile Industries*
- *Distilleries*
- *Pharmacy Industries*
- *Chemical Industries*
- *Paper Industries*
- *Tannery Industries*
- *Dye & Dye Intermediaries*
- *Edible Oil Refineries*
- *Electroplating Industries*



Advantages

- *Totally integrated zero discharge system.*
- *By Product is marketable commodity in most of the cases.*
- *Complete use of condensate water.*
- *Compact plant requires very less space.*
- *No Scaling & Froth formation in evaporator.*
- *User friendly plant.*

Technical Specifications

- *Equalization*
- *Acidification*
- *Pressure Filter*
- *Primary Floatation*
- *Fat Recovery*
- *Filter process*
- *Neutralization*
- *Cooling & Mixing*
- *Chemical Conditioning*
- *Setting & separation of sludge*
- *Removal of Chemical Sludge*
- *Biological Oxidation by Activated Sludge Process*
- *Bio-clarification / sludge recycle*
- *Up flow pressure solid filtration*
- *Activated carbon filtration*

Ultra Filtration

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Crystal Drops offers a series of ULTRA FILTRATION membrane that is designed to be an effective barrier to suspended solids and microorganisms, producing consistent, high quality permeate that makes it ideal for applications such as potable water treatment and as pre-treatment to reverse osmosis (RO) membranes.

Applications

- *Pre-treatment filtration*
- *Water treatment/purification*
- *Wastewater recycling*
- *Industrial process/waste fluid treatment*

Advantages

- *High tensile strength*
- *Enhanced hydrophilicity*
- *Low fouling*
- *Consistent, high quality permeate*
- *Sharp rejection profile*
- *Long lifespan*
- *Small footprint*



Ultra Filtration

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Membrane Specifications

Features	UOM	Specifications
STRUCTURE	-	Asymmetric
BASE MATERIAL	-	Reinforced polyether sulfone (PES)
OUTER DIAMETER	mm / inch	1.48 / 0.058
INNER DIAMETER	mm / inch	0.65 / 0.026
MOLECULAR WEIGHT CUT-OFF (MWCO)	Daltons	120,000
BACTERIA REJECTION	%	> 99.9999
TENSILE FORCE	N	11-12



Module Specifications

Features	UOM	Specifications
DIMENSIONS (Overall Dia. x Length)	mm / inch	344 X 2,350 / 13.54 x 92.52
MEMBRANE AREA	m2/ ft2	55 / 592
FEED INLET	inch	1.5 NPT
PERMEATE OUTLET	inch	1.5 NPT
REJECT OUTLET	inch	1.5 NPT
DRY WEIGHT	kg / lobs	60 / 132
WET WEIGHT	kg / lbs	100 / 220
HOUSING	-	PVC
END CCAPS	-	PVC
SEALANT	-	Proprietary composite potting materials

Skid Mounted Reverse Osmosis Systems (RO System)

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Reverse Osmosis is a water purification technology that uses a semipermeable membrane to remove ions, molecules, and larger particles from drinking water.

Crystal Drops offers a series of Reverse Osmosis systems which are highly efficient, reliable and cost effective in removing Total dissolved salts from the water and provide ultrapure water for variety of applications.

Crystal Drops RO systems are designed to cater for both domestic and industrial use.





Applications

- *Mineral Water.*
- *Processed water for Manufacturing.*
- *Ultrapure water for Pharma and electronic industries*

Advantages

- *Reliable & Consistent water quality compare to conventional De-Mineralisation systems.*
- *Low Operating and Maintenance Cost.*
- *Easy for installation, operation and Maintenance.*
- *Available in various capacities to suit End User requirements.*

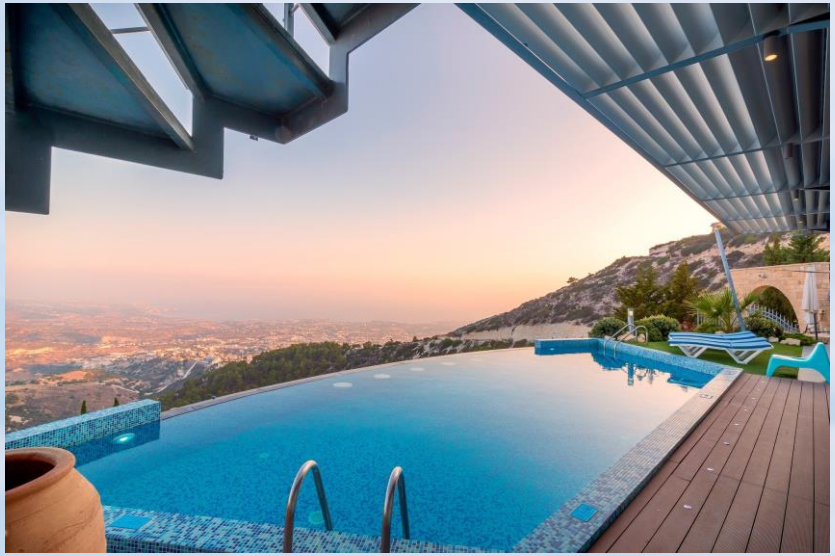
Swimming Pool

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A swimming pool, swimming bath, wading pool, or paddling pool is a structure designed to hold water to enable swimming or other leisure activities.

Applications

- *Hotel & Resorts*
- *Villas*
- *Housing Complexes*
- *Township & College*
- *IT Parks*
- *International Airport*
- *Hospitals*



Advantages

Both indoor and outdoor swimming pools offer numerous benefits; plus, they are welcome additions to your estate and lifestyle. Besides being fun and relaxing, swimming is one of the best workouts for your entire body.



Water Features

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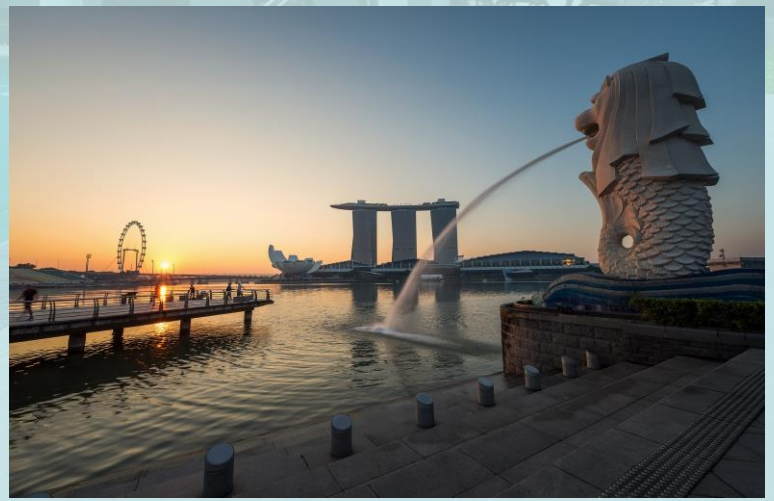
In landscape architecture and garden design, a water feature is one or more items from a range of fountains, pools, ponds, cascades, waterfalls, and streams

A biological treatment that keeps enclosed water features free from algae. A safe non-toxic water clarifier to keep self contained water features free from algal growth, surface staining and green water. This treatment is harmless to fish and pond life making it perfect for all ponds.



Applications

- *Hotel & Resorts*
- *Villas*
- *Housing Complexes*
- *Township & College*
- *IT Parks*
- *International Airport*
- *Hospitals*



Advantages

- *Safe, non-toxic water clarifier*
- *Keeps self contained water features free from algae,*
- *Surface staining and green water*
- *Safe for use with fish, pets and plant life*

Organic Waste Converter

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A waste converter is a machine used for the treatment and recycling of solid and liquid refuse material. A converter is a self-contained system capable of performing the following functions: pasteurization of organic waste; sterilization of pathogenic or biohazard waste

Crystal Drops focused on comprehensive waste management and environmental services. We work with organizations and institutions to help manage all types of waste effectively.





Applications

- *Kitchen Waste*
- *Hotel & Resorts Waste*
- *Hospitals*
- *Township & College*
- *Industrial Canteens*
- *Housing Complexes*
- *Temples*
- *Vegetable market*

Advantages

- *No Power Requirements.*
- *Closed Vessel with de-ordering so no smell during composting of waste.*
- *Environmental Friendly solution for converting waste to Organic Manure (Bio fertilizer).*
- *Very Less Space Requirements.*
- *Labor is required only for loading food waste and removing compost.*
- *Fertilizers can be sold as compost to farmers, or used for gardening*

Our Esteemed Customers List

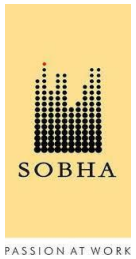
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Business Verticals

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Projects & EPC

- *Water Treatment*
- *Industrial effluent treatment across sectors*
- *Sewage treatment*
- *Desalination*
- *High purity water solutions*
- *De-mineralization*
- *Drinking water systems*
- *Special capabilities on water recycling and ZLD*

Spares, Chemicals & Components

- *Membranes - UF/NF/RO/MBR*
- *Pressure tubes*
- *Dosing systems & Pumps*
- *High Pressure pumps*
- *Filter press*
- *Ozonators*
- *FRP tanks*
- *Micron cartridge filters - spun and wound*
- *Anti-scalants, membrane cleaning chemicals and biocides*
- *Color removal chemicals, coagulants and polyelectrolytes*
- *Ion exchange resins*

Services

- *Operations & maintenance*
- *Retention based services*
- *Retrofitting*
- *Water audits*
- *Water testing*
- *Training and skill development*

Contact Us

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THANK YOU