



 **ION EXCHANGE**  
*Refreshing the Planet*

## Refreshing our planet



The world is in a state of modernisation that is destroying the environment. Unsustainable development is eroding nature's balance and degrading her ecosystem. What our planet needs is a breath of new life, a chance to heal and flourish. At Ion Exchange, we take pride in reclaiming its purity - renewing, refreshing and rejuvenating the environment every day.

As a society we need to understand that the environment and economic well-being are mutually compatible. This is the change we strive to achieve.



## Giving environment a new lease of life. For generations to come.

Our aim is to conserve our planet's most precious resources - water, air, soil and energy, through 360° solutions. Our holistic approach encompasses planning and managing the supply, quality, quantity and discharge of water. It includes management of solid, bio-solid and hazardous waste, curbing air pollution and recovering energy from waste.

Ion Exchange is committed to serve every section of society, to improve the quality of life and the environment.

### Our vision

'To be the leader in our business which is so vital to people's lives and the environment.'

A pioneer of water treatment with a legacy spanning over five decades, Ion Exchange is today considered a premier company in water and environment management, with sales, production and service footprints across the world.

We are one of very few companies worldwide with a complete range of water and environmental solutions. This enables us to offer total solutions for all sectors - infrastructure, industry, institutions, homes and communities.

We serve our markets with a sustained focus on customer satisfaction, technological innovation and dedicated service. Our capability to deliver state-of-the-art technologies with complete technical support makes us a partner you can depend on.



# FULL SPECTRUM SOLUTIONS



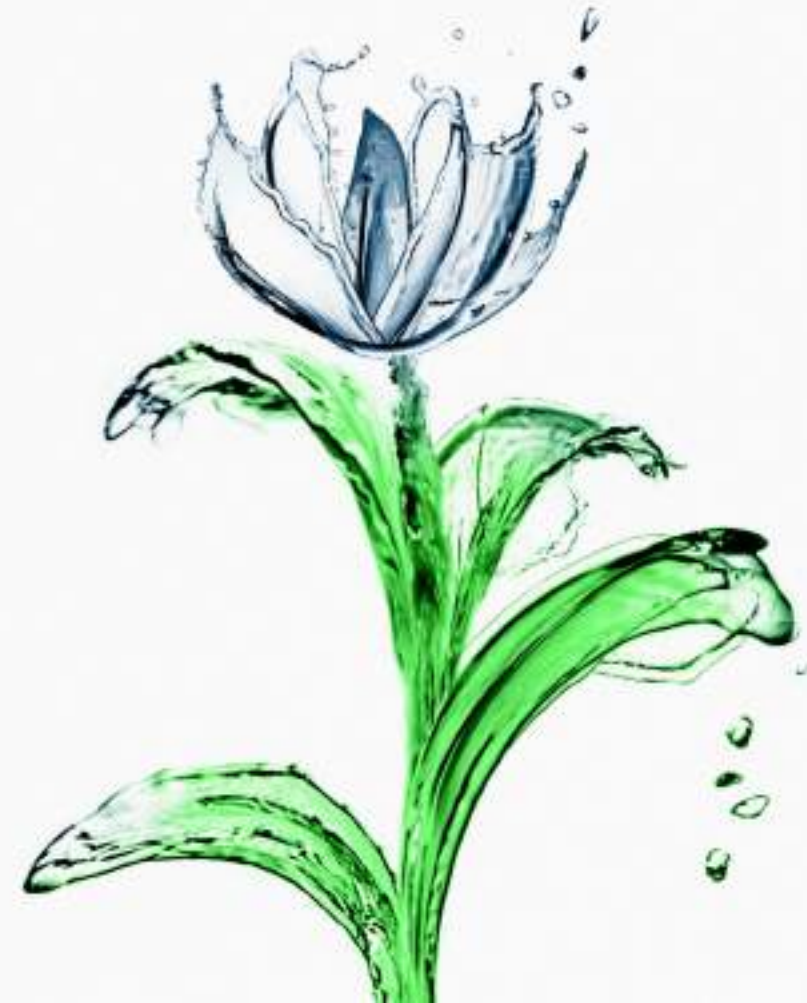
Nature extends her hands towards us.  
We extend them further to customers.

### Hallmarks of Value Creation

Our total solutions capability and thorough knowledge of customers' processes help us to create substantially superior value.

### Multiple Benefits for Customers

- Strategic concept to completion solutions and consultancy
- Single point responsibility enabling customers to focus on their core business
- Environmentally responsible solutions
  - Compliance with regulatory consumption and discharge norms
  - Zero discharge of pollutants through water recycle and recovery of by-products for process use
  - Recovery of energy from waste
- Water security with assured quality and quantity of water
- Higher ROI with lower overall cost
  - Low water footprint
  - Low cost of ownership
- Superior price performance ratios and process production efficiencies
- Enhanced quality of customer product
- Creative ownership options such as BOO/T





## Empowering a sustainable future. Across industries.

### Industries

If we want a sustainable future for coming generations, there is a need to protect the environment and conserve natural resources. We help industries to use their water and energy resources more efficiently and provide solutions that address the needs of each customer. Through quantifiable benefits we have demonstrated time and again that efficient water and environment management is a value investment.

High Rate Solid Contact Clarifiers for Paper Industry



Reverse Osmosis Plant at Food & Beverage Industry



Our comprehensive solutions extend from influent water through potable & process water, effluent treatment, water reuse & zero discharge and waste-to-energy projects. We take great pride in providing 24x7 support service that ensures high performance continuity.



Ultra High Rate Clarifier for Textile Plant



Demineralisation Plant at Petroleum Industry



Reverse Osmosis (RO) Electrodeionisation (EDI) for Pharmaceutical and Electronics Industries



Ultra Filtration at Paper Industry



Sea Water Reverse Osmosis (Desalination) at Thermal Power Station



Condensate Polishing Units for Power Plant



Filtration System at Power Plant

## Conserving Natural Resources.

Complementing engineered water treatment, a wide range of customised chemical treatment programmes, boiler and cooling water treatments and fireside programmes ensure optimum plant performance that reflects in the overall efficiency.

Water quality monitoring products ensure accurate analysis of water, essential for maintenance of boilers, cooling towers, softeners and demineralisers. These are available as individual outfits, combination kits and refills.



Boiler Water Treatment



Cooling Water Treatment



Side Stream Filters at Steel Facility



Water Test Kits and Refills



## Nature has been kind to us. We are returning the favour.

Pollution and increased demand have made good quality water scarce and expensive. Meanwhile, disposal norms are getting tighter and their enforcement stricter. We provide effective and economical solutions to recycle waste water, which help conserve fresh water, protect the environment and reduce waste discharge while generating savings.

Effluent recycle solutions are designed to yield optimal benefit. For instance, recycle systems are combined with speciality water treatment chemical programmes that reduce water discharge, and state-of-the-art effluent treatment plants are integrated with zero liquid discharge processes. They are backed by comprehensive operation and maintenance services for sustainable results.

Solutions integrate physicochemical, biological and membrane separation processes for optimum water recovery. These include micro filtration, ultra filtration, nano filtration and reverse osmosis systems, membrane bioreactors and advanced photochemical oxidation.



Effluent Treatment Plant at Refinery



Effluent Treatment Plant for Steel Industry



Membrane Bioreactor Plant at Industrial Area



Zero Liquid Discharge System at Synthetic Rubber Plant

## Adding Value to Industry.

The sphere of our influence is not limited to water solutions. Over the years, we have innovatively applied ion exchange and membrane processes for non-water applications in many industries for product purification and recovery, thus generating value for customers.

Speciality process chemicals for the sugar, paper, ceramics, oil refining, mining, steel and textile industries help to increase efficiencies and product quality.



Gelatine Concentration Ultra Purification Unit in Food and Beverage Industry



Uranium Recovery Plant at Mining Industry



Boron Enrichment Plant for Heavy Water Board



Glycol Purification for Chemical Plant





## Solutions that inspire an environment friendly tomorrow.

### Commercial complexes & institutions

Our water and environment solutions extend far beyond industrial horizons to provide safe drinking water and clean environment to hotels, educational institutions, hospitals, railways and defence establishments.

We offer systems for drinking water purification, swimming pool filtration, disinfection, water conditioning for utilities, treatment of sewage and recycle.



Water Vending Machine



Ultrapure Water for Artificial Kidney Dialysis



Lab Water Solutions



Packaged Drinking Water Plant for Railways



Compact Unit for Purification and Bottling of Drinking Water



Membrane Bioreactor at Commercial Complex



Swimming Pool Filters



Fluidised Media Reactor at a Hotel





## Our vision for humankind. A refreshed world.

### Communities, urban and rural

In our endeavour to create a healthy environment, we reach out to municipalities, public health engineering departments, water supply and sewerage boards, and undertake projects for public water supply and sanitation.

Our wide range of solutions for surface and ground water treatment remove pollutants ranging from simple silt to contaminants such as arsenic, fluoride, iron, nitrate, organics and salinity. We undertake turnkey projects on EPC or BOO/T basis for water supply and distribution, drinking water treatment, sewage treatment and disposal, sea water intake and desalination, solid waste management and waste-to-energy projects - all backed by operation and maintenance services for continuous, optimum performance.



Drinking Water Treatment for Municipality



Fluidised Media Reactor for  
Sewage Treatment & Water Recycle



Arsenic Removal Plant for Ground Water Treatment



Continuous Sand Filter for Surface Water Treatment



Sludge Digestion - Waste-to-Energy



Restoring nature's balance.  
At every doorstep.

### Home Water Solutions

Ion Exchange, under its flagship brand Zero B, provides total water solutions to households to ensure purity of life. Our wide range of user-friendly and attractive water purifiers cater to the safe drinking water needs of our consumers. The iron removal and softener units offered by us are ideal for water conditioning.



Zero B Hydrolife



Zero B Kitchen Mate



Zero B Suraksha Tap Attachment



Zero B AutoSand & AutoCarbon Filter



Zero B Intello



Zero B eco RO



Zero B Iron Remover



Zero B Softeners



The earth needs a specialist.  
We volunteer each day.

### Services

Satisfaction of customers is paramount and to ensure this, we offer a complete range of technical services. These deliver economic benefit and convenience of total solutions, with single point responsibility.

- Water and environmental consultancy
- Plant and process audits
- Surveys, feasibility and pilot plant studies
- Plant rehabilitation, retrofitting and automation
- Operation and maintenance
- Build-Own-Operate/Transfer (BOO/T) projects
- Plants on rental basis
- Operator training
- Supply of consumables and spares





Innovating for a rejuvenated tomorrow.  
The earth deserves a second chance.

### Research & Development

At Ion Exchange, we realise that innovative technologies are vital to address complex problems of the changing world. Our R&D centres constantly works to develop, adapt and improve products and processes. It has numerous patents to its credit and over a hundred products launched.



# Manufacturing the environment anew. With a range of solutions.

## Manufacturing facilities

We are committed to built-in quality, achieved by stringent quality assurance systems and state-of-the-art production processes. Our manufacturing practices follow the highest standards of safety and quality, including ISO 9001, ISO 14001 and ISO 45001 certification.

Our pharma grade resin manufacturing facility is US FDA compliant and WHO-GMP certified.

We have manufacturing facilities in India, Bahrain and Sharjah for

- Ion exchange and speciality resins
- Water treatment and speciality process chemicals
- Assembly and testing of custom built plants before shipment
- Fabrication of plants
- Chemical blending
- Membranes



Fabrication & Assembly Facility  
at Hosur, Tamil Nadu



Fabrication Plant  
at Wada, Maharashtra



Fabrication & Assembly Facility  
at Verna, Goa



Chemical Blending Plant  
at Bahrain



Assembly Unit  
at Sharjah, UAE



Warehouse & Assembly Centre  
at Indonesia



Export Oriented Unit  
at Rabale, Maharashtra



Industrial Chemical Division  
at Patancheru, Telangana



Membrane Manufacturing Unit  
at Verna, Goa



Resins Manufacturing Unit  
at Ankleshwar, Gujarat



CSR.

Spreading Happiness.

Success tastes sweetest when it's shared

Ion Foundation motivates and facilitates change towards building an inclusive society in a responsible and sustainable manner. Founded in 2010, it has reached out to thousands of underprivileged children. Projects undertaken by Ion Foundation focus on education, health, hygiene and environment.





## Working towards restoring the planet.

### Across different segments.

| Sectors Served                     |                                     | Core Competencies                           |   |
|------------------------------------|-------------------------------------|---|---|
| Industrial                         | Institutions & Commercial Complexes | The Widest Range                            | Equipment & Project Expertise           |
| Automotive                         | Hospitality                         | Pretreatment                                | Process Design                          |
| Brewery & Distillery               | Laboratories                        | Drinking Water Purification                 | Detailed Engineering                    |
| Cement                             | Hospitals                           | Water Supply & Distribution Schemes         | Procurement                             |
| Chemical                           | Railways                            | Sea Water Intake & Desalination             | Project Management                      |
| Construction                       | Defence                             | Process Water & Liquid Treatment            | Erection, Plant Testing & Commissioning |
| Fertiliser                         | Educational Institutions            | High Purity Water Generation & Distribution | Services                                |
| Food & Beverage                    | Commercial                          | Industrial Effluent Treatment               | Strategic Water Management              |
| Mineral & Mining                   | • Offices                           | Waste Water Recycle & Zero Discharge        | Consultancy                             |
| Oil & Gas                          | • Malls                             | Membrane Processes                          | Plant & Process Audits                  |
| Pharmaceutical                     | Communities & Municipalities        | Ion Exchange Resins                         | Research & Development                  |
| Pulp & Paper                       | Urban                               | Polyelectrolytes                            | Treatability & Pilot Plant Studies      |
| Refinery & Petrochemical           | Rural                               | Boiler & Cooling Water Chemicals            | Operator Training                       |
| Semi-conductor & Micro-electronics | Reality                             | Fireside & Fuel Additives                   | Annual Maintenance & Servicing          |
| Steel                              | Residential                         | Speciality Process Chemicals                | Operation & Maintenance                 |
| Sugar                              | • Apartments/Bungalows              | Water Quality Monitoring                    | Upgrading & Modernising                 |
| Textile                            | • Residential Complexes             | Utility Complex Construction                | Project Financing & BOO/T               |
| Power                              | • Point of Use - Zero B             | Solid Waste Management                      | Plants on Rental Basis                  |
| and many more...                   |                                     | Recovery of Energy from Waste               | Environment Management Systems          |

Together we are renewing the environment.  
From every part of the globe.



Map is for representation purpose only



## ION EXCHANGE (INDIA) LTD.

### Corporate Office

Ion House, Dr. E. Moses Road, Mahalaxmi,  
Mumbai - 400011 | Tel: +91 22 6231 2000  
E-mail: [ieil@ionexchange.co.in](mailto:ieil@ionexchange.co.in)

### International Division

R-14, T.T.C MIDC, Thane - Belapur Road, Rabale,  
Navi Mumbai - 400 701 | Tel: +91 22 6857 2400  
E-mail: [export.sales@ionexchange.co.in](mailto:export.sales@ionexchange.co.in)

### Regional and Branch Offices

Bengaluru | Bhubaneswar | Chandigarh | Chennai  
Delhi | Hyderabad | Kolkata | Lucknow | Vadodara  
Vashi | Visakhapatnam

### Overseas Offices

Bangladesh | Canada | Indonesia | Kenya  
Malaysia | Oman | Portugal | Saudi Arabia | Singapore  
South Africa | Sri Lanka | Tanzania | Thailand | UAE | USA

### Manufacturing Units

India - Ankleshwar | Hosur | Patancheru | Rabale | Verna | Wada

Overseas - Bangladesh | Indonesia | Saudi Arabia | UAE

All India Service and Dealer Network

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

