

wipro water



**Making every
drop count**



wipro water

40+

years of domain expertise

500+

global customers

350+

projects executed

25+

industry segments

40+

million m³ water treated



A LEADING SYSTEM INTEGRATOR

Diverse, technologically agnostic solutions across the water treatment lifecycle from raw water treatment to wastewater recycling and reuse, including Zero Liquid Discharge (ZLD)



A PROVIDER OF CUSTOMIZED SOLUTIONS

Leveraging the latest technologies developed in-house or co-developed through strategic partnerships for efficient plant performance, operations and maintenance



INTEGRATED SERVICE & SPARES MANAGEMENT

24x7 operations secure availability and stability of critical equipments; highly skilled engineers monitor systems proactively, emboldens customers



ADVANTAGES DELIVERED

- End-to-end, custom designed integrated plants for diverse industries
- Understand business requirements, execute complex projects optimally
- Reduced Total Cost of Ownership (TCO)
- Enhanced efficiencies with lower operating costs
- Guaranteed performance contracts



Water Treatment

Wipro Water offers an extensive portfolio of treatment processes for quantitative and qualitative supply of water to industries. Covering every need from conventional processes to high-performance systems, our expertise and knowledge of different technologies and applications enables us to design efficient water treatment plants that are reliable. Low-maintenance costs enhance the economic value of the asset over its lifecycle.

Water plays an important role in most industries. It could be an important ingredient or it may be used for processing, washing, diluting, cooling or transporting a product. Water is drawn from diverse sources and its applications require different treatment technologies.

APPLICATIONS

Raw water pre-treatment and clarification | Water softening and filtration | Purified water generation system
Desalination plant | Demineralization plant | Condensate polishing unit | Industrial & commercial RO plant

TECHNOLOGY



Clarification Systems

- Clarifiers
- Clariflocculators
- Tube Settlers
- High Rate Solid Contact Clarifier - HRSCC



Filtration Systems

- Gravity / Rapid-gravity Sand Filters
- Pressure Sand Filters
- Dual Media Filters
- Multimedia Filters
- Activated Carbon Filters



Process/Resin-based Treatment Systems

- Water Softening Plants
- Demineralization Plants - DM
- Mixed Bed Polishers
- Electro Deionization - EDI
- Condensate Polishing Units - CPU



Membrane - based Treatment Systems

- Micron Filtration
- Ultra Filtration
- Nano Filtration
- Reverse Osmosis
- Membrane Bio Reactor



Disinfection Systems

- Chlorination
- Ultra Violet (UV)
- Ozonation



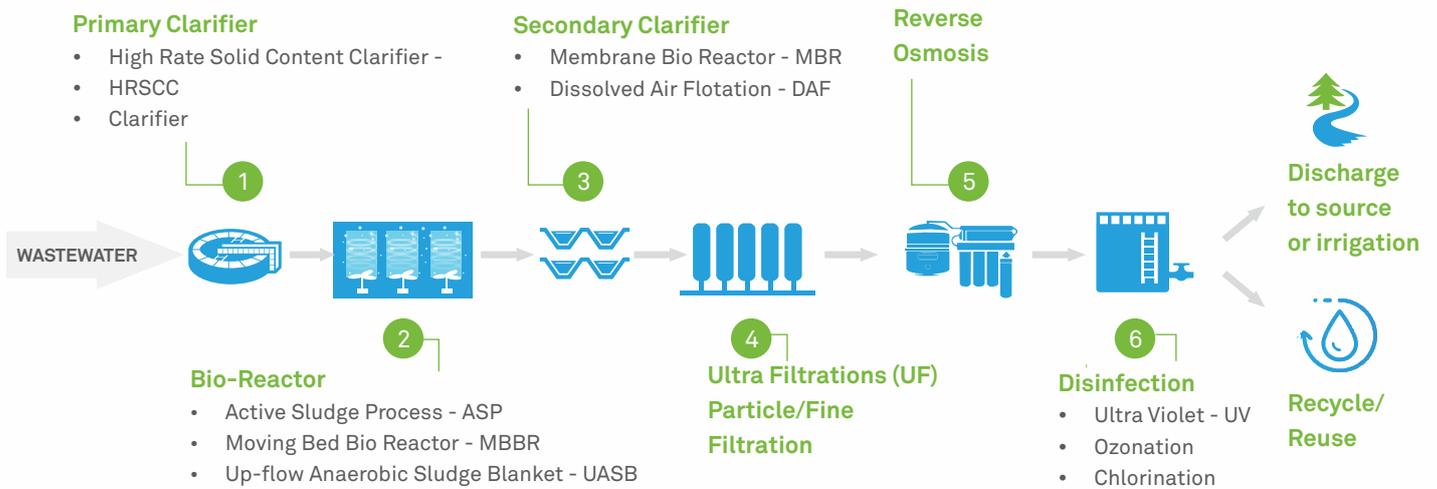
The emission limits for industrial effluents are constantly re-evaluated and tightened. Closed circuits and product recovery in various production processes is an increasing priority among manufacturing companies and represents an area of great cost-cutting potential, as does protecting the aquatic eco-systems.

Wastewater Treatment

Wipro Water's long-term experience in the wastewater treatment sector, and resulting expertise, has been advantageously employed for the technical and economic optimization of subsequent facilities. Wipro's wastewater treatment processes - aerobic / anaerobic biological and chemical-physical, offer considerable saving of liquid resources.

APPLICATIONS

Process effluent treatment | Industrial & domestic sewage treatment | Common effluent treatment plants



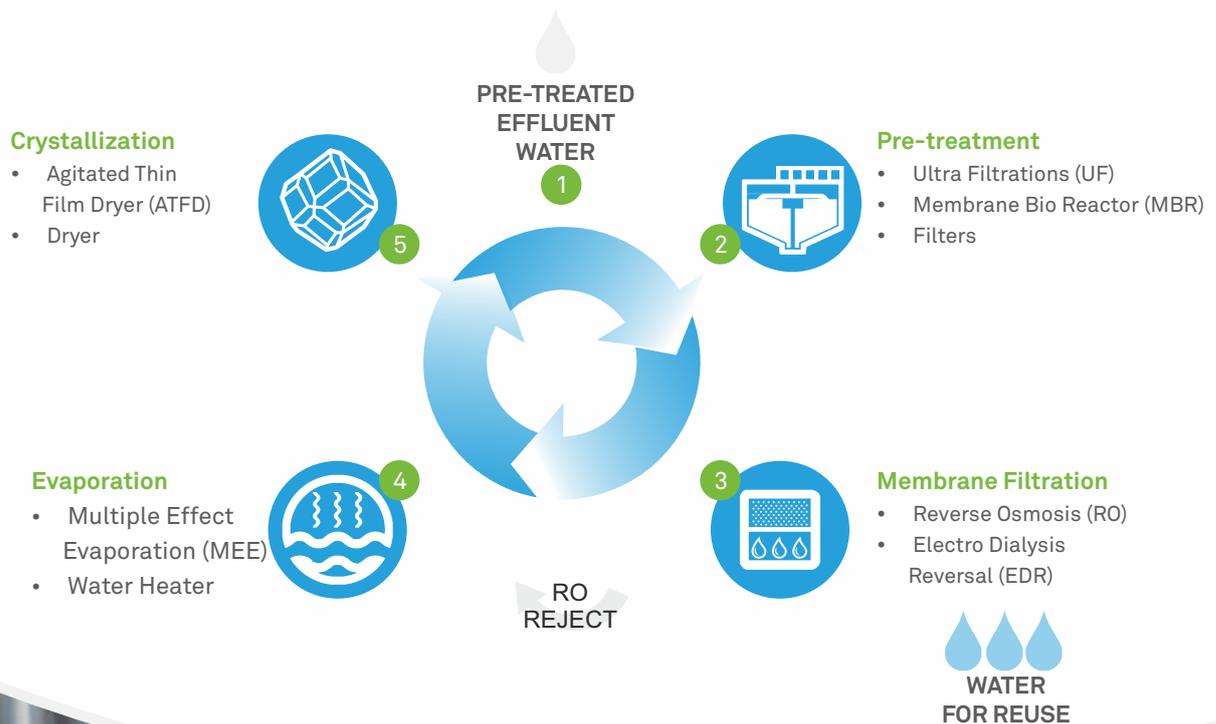
Recycle & Zero Liquid Discharge (ZLD)

Wipro Water guides the planning for Zero Liquid Discharge solutions to make the treatment of wastewater into a profit center. Our design objective is to minimize capital investment, system operating cost, and the manpower required for operations. In the long run, lowered waste volumes decrease the cost associated with waste management. By operating a ZLD plant, disposal costs can be reduced, more water is re-used minimizing the impact on local ecosystems.

Zero liquid discharge technologies help meet discharge and reuse requirements, enable businesses to meet regulations, treat and recover valuable products from waste streams and better manage produced water. It demonstrates good economics, corporate responsibility and environmental stewardship.

APPLICATIONS

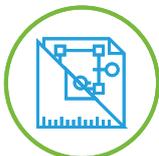
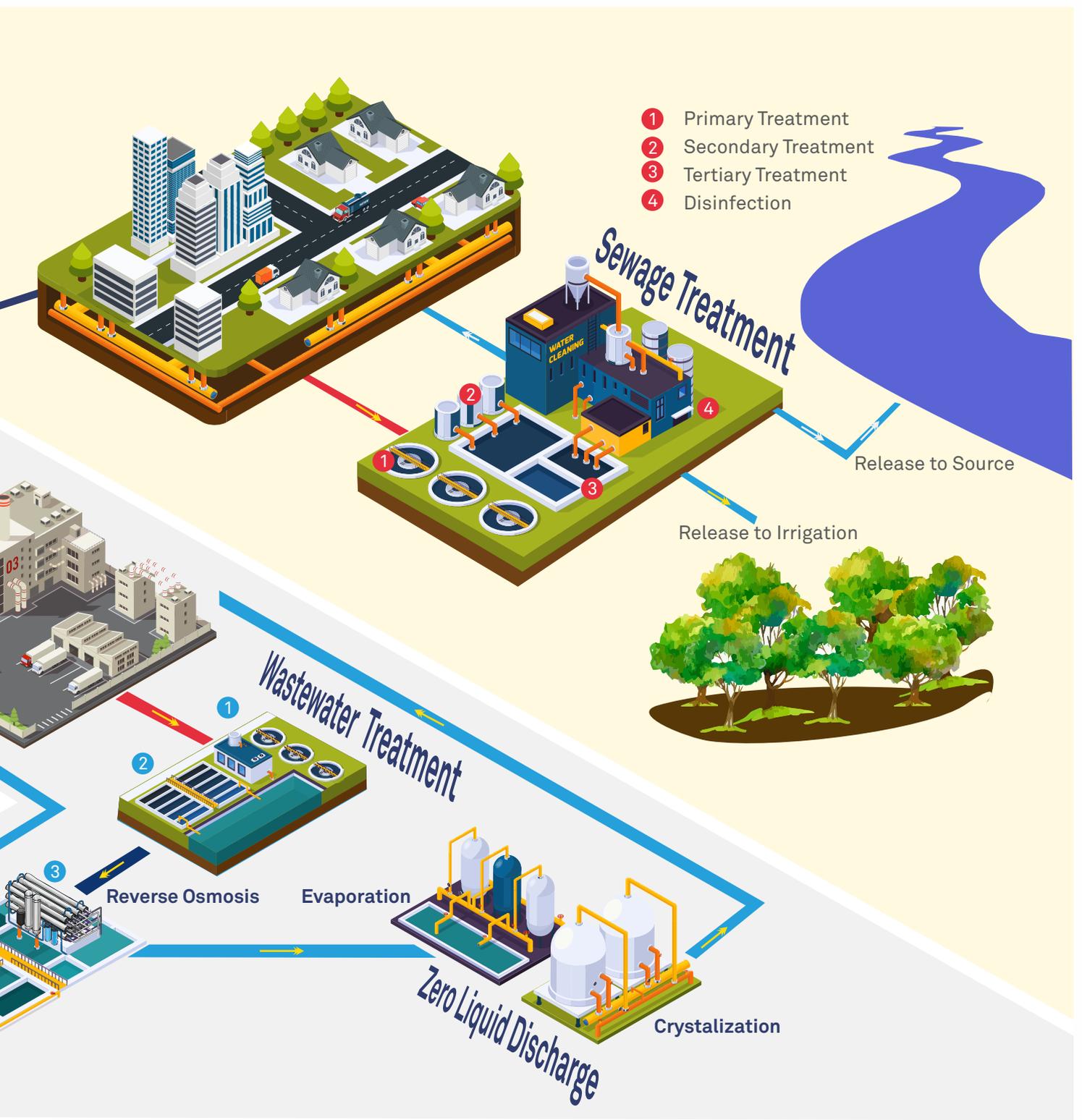
Cooling tower blowdown | Boiler blowdown | RO reject (industrial and drinking water)
Demineralization waste | Oil refinery effluent



The Wipro Water Range of Solutions and Services



Services across
Industrial and Residential Applications



Plant Design and Consultation



Engineering Procurement Construction (EPC)



Operation and Maintenance (O&M)



Remote Monitoring



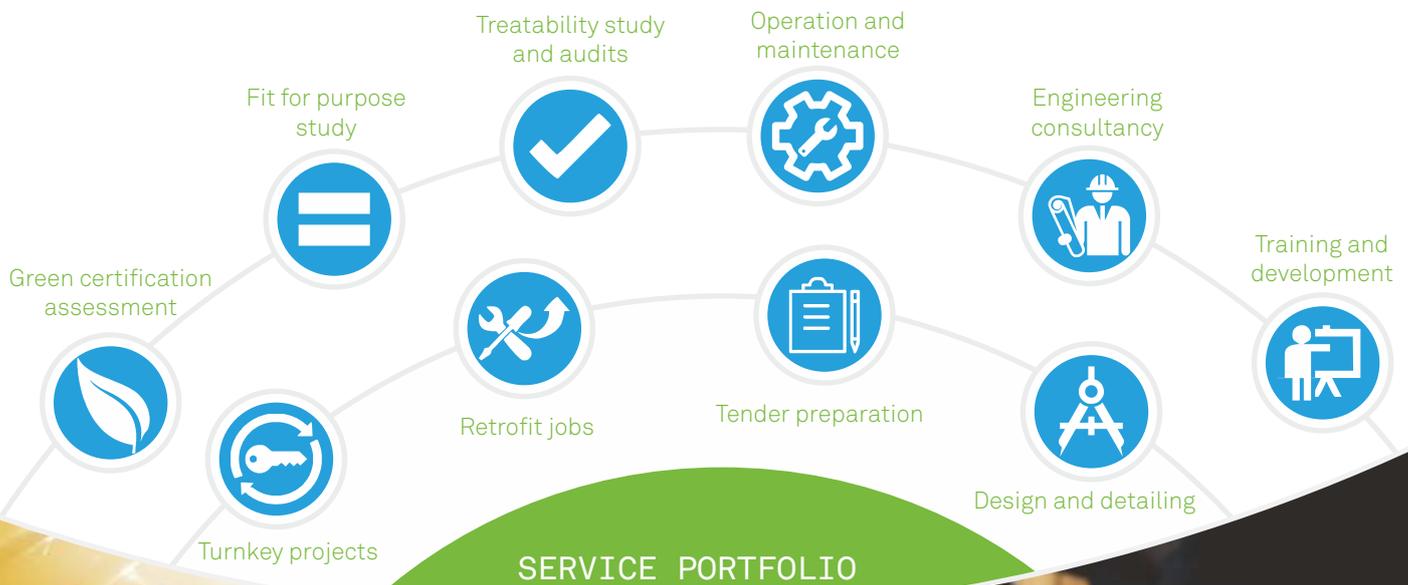
Plant Capacity Upgrade/Retrofit

Whether it's a process modification or plant expansion, characteristic changes due to altered influents, good consultancy must deliver the best technical and cost effective solutions.

Consultancy Services

Wipro Water takes a unique approach to water and wastewater plant design. Our understanding of upstream dynamic processes and the impact on wastewater treatment plants allows us to carry out lab scale plant modelling with varied technologies to provide innovative solutions that reduce the total cost of environmental compliance.

We cover all aspects of domestic and industrial wastewater treatment as well as associated bio-solids generated from these activities. Our engineers and scientists have extensive experience gained from working in different global environments. Our international exposure and technical expertise enables us to not only keep abreast with global perspectives in wastewater treatment but also enables us to offer our clients world-class technologically futuristic products, cost-effective solutions and ensures the delivery of high quality services.



Operation and Maintenance

Wipro Water's operations and maintenance services eliminate the need for an in-house team. An expert in the water domain, Wipro undertakes to manage facilities with innovative and effective solutions that secure the life of equipment and discovers avenues of further reduction of operating expenses. The overall aim of operation and maintenance is to ensure safety of people and process, operational efficiency and sustainability of water treatment facilities.

Our customized operating procedures comply with stringent safety norms, discharge limitations, supervision, on-call services, supply of all spares and consumables, and management reporting. Wipro develops and implements innovative plans to continually improve the performance and productivity of the facilities under contract. O&M customers get access to our wealth of technical knowledge, the latest technology and innovative solutions for operating and capital expenditure reduction. Our design engineers provide consultancy support on future expansion and retrofit needs as and when required. Subject matter experts perform periodic site visit, audit processes and conduct training on safety, equipment and best practices.

Remote Monitoring

We enable effective remote monitoring by providing the following:

- Indigenous technology to monitor plant performance in real time
- Predictive maintenance and analytics to improve performance and reduce cost of operations
- Effective tracking of:
 - Raw water quality and quantity
 - Treated water quality and quantity
 - Chemical consumption
 - Power consumption
 - Health of critical components
 - Inventory levels

Effective operations and maintenance translate to tangible savings in the future by means of optimizing energy, chemical and water consumption. Better asset management reduces or eliminates unplanned plant shutdowns and extends the life of equipment.

Advantages

Process specific skilled team for 24x7 process control

100 % guaranteed conformance to ever demanding statutory compliance

Single window supply for all spares, chemicals and consumables

Analytics - data analysis and real time monitoring for predictive maintenance and optimized cost of operation

Retrofit / upgradation from concept to design execution



Wipro Edge



Process Engineering and Design

Wipro Water has excelled in utilizing its know-how for the integration of various technologies offering tailor-made water and wastewater treatment solutions that embrace all chemical, biological, mechanical and electrical elements. Leveraging Wipro's in-house software 'Spussels', a team of highly skilled engineers delivers the highest quality of error free, optimized designs. We provide a unique 3D virtual walk-through of proposed plants and solutions.



Project Management

Wipro Water's project management strengths lie in the company's local presence and its experience gained through a long history of global engagements. Wipro has an abundance of experience in the completion of ergonomically safe and reliable plants evident in the projects completed in time, per customer requirements. Systems are designed with operational flexibility to meet reasonable future expansion.



Manufacturing/Fabrication Facilities

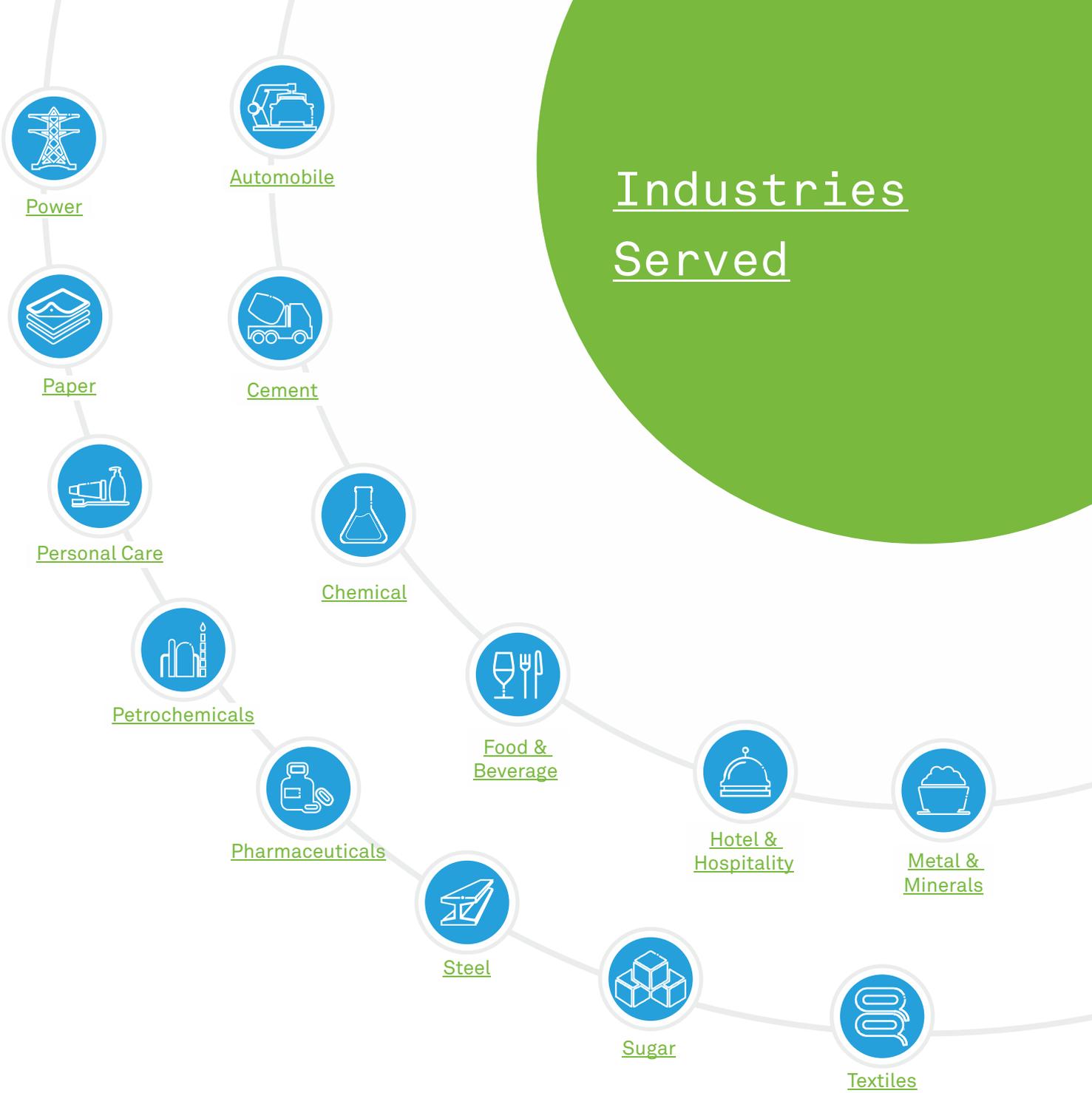
Uniquely, Wipro Water is one of the few specialized companies in the segment with an in-house manufacturing facility. A purpose specific 1800 M² fabrication facility caters to critical stainless steel fabrication for high purity water. Another bay is used for mild steel and assembly of industrial applications. The plant's state-of-the-art fabrication facility has a Factory Acceptance Test (FAT) and conforms to Lean/Six Sigma methods that ensure timely and on-cost delivery.



Pre-engineered and Tested

- Filters (MGF, ACF & DMF)
- Softeners
- Resin-based DM Plants
- Ultrafiltration Skids
- Reverse Osmosis (RO) Plants

Industries Served



Making Every
Drop Count

● Wipro Water

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Wipro Water, caters to global clients by providing comprehensive solutions for water and wastewater treatment. Solutions range from raw water treatment to wastewater recycling and reuse including Zero Liquid Discharge (ZLD).

Wipro Water is a division of Wipro Infrastructure Engineering, which is an industrial engineering business with expertise spanning Hydraulics, Aerospace, Water Treatment, Additive Manufacturing and Automation Solutions.

● Regional Offices

- Delhi
- Lucknow
- Kolkata
- Hyderabad
- Chennai
- Bengaluru
- Ahmedabad
- Mumbai

