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DESALINATION MARKET IN INDIA

Analysis, Cost Economics, Upcoming Capacity and Future Potential

This insightful study covers:

- ❖ An analysis of trends and developments in the desalination market
- ❖ Costs and economic viability of desalination plants
- ❖ Key global and domestic players present in the desalination market
- ❖ Trends and advancements in treatment technology
- ❖ Regulatory developments
- ❖ Upcoming projects, tenders and opportunities

WASTEWATER TREATMENT AND REUSE MARKET IN INDIA

Current State, City-Level Initiatives, Emerging Technologies and Upcoming Opportunities

The report covers:

- ❖ Historical data and analysis of sewage generation and treatment
- ❖ City-level initiatives and practices for wastewater recycle and reuse
- ❖ Industrial effluent management initiatives
- ❖ Key technologies and innovations in this space
- ❖ Sewage generation projections
- ❖ Future potential for wastewater recycle and reuse in India
- ❖ Key upcoming STP and CETP capacity

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INDIA INFRASTRUCTURE RESEARCH

Rapid population growth, combined with declining freshwater water resources in the country, is expected to drive the adoption of desalination technologies. Industries such as thermal power plants and oil refineries are setting up large-scale desalination plants to meet their water requirements efficiently. At least 350 mld of desalination capacity is being set up for industrial use. On the municipal front, Tamil Nadu and Gujarat have witnessed a tremendous increase in desalination demand. Another 800 mld of desalination capacity will be added in these two states alone in the next three to four years.

Private players in the desalination market have increased in the last one decade or so. Advanced technologies and equipment are also being deployed to reduce the high energy costs associated with desalination. Over the next three to four years, at least Rs 135 billion will be required to set up the planned desalination projects, thus presenting significant opportunities to key stakeholders.

1. Water Sector Overview

- ❖ Size and Growth
- ❖ Policy and Regulatory Developments
- ❖ Freshwater Resources Availability
- ❖ Sources of Water Supply
- ❖ New Water Sources (treated wastewater, desalinated water, etc.)
- ❖ Constraining Factors
- ❖ Demand-Supply Gap
- ❖ Supply Outlook and Projections
- ❖ Future Outlook and Projections

2. Desalination Market Snapshot

- ❖ Current Capacity (completed and ongoing)
- ❖ New Policy and Regulatory Initiatives to Scale up Capacity
- ❖ Experience So Far
- ❖ Major Milestones
- ❖ Issues and Challenges
- ❖ Key Recommendations

3. Cost Economics

- ❖ Trends in Capex
- ❖ Desalination Cost Structure
- ❖ Cost Components of Key Desalination Plants

4. Future Potential and Upcoming Capacity

- ❖ Growth Drivers
- ❖ Planned Capacity of States/Local Utilities
- ❖ Emerging Requirements of Key Industries
- ❖ Planned Capacity Additions
 - Municipal
 - Industrial
- ❖ Expansion Capacity Plans for Key Industries
- ❖ Key Upcoming Projects and Tenders

5. Treatment Technologies

- ❖ Types of Technologies (membrane and thermal)
- ❖ Key Features (capital cost, land requirement, production cost, plant performance, quality of treatment, etc.)
- ❖ Current State of Deployment
- ❖ New Advancements
- ❖ Issues and Challenges

6. Key Players and Noteworthy Projects

- ❖ Profiles of Key Players
 - IDE Technologies
 - VA Tech Wabag
 - ION Exchange
 - Suez Water Technologies & Solutions
 - Doshion Veolia Water Solutions
 - IVRCL
- ❖ Case Studies of Select Projects

7. Database of Key Desalination Projects

- ❖ Completed
- ❖ Ongoing
- ❖ Planned/Proposed

Each project provides information on the scope of work, location, cost, capacity, mode of implementation, implementing agency, developer/contractor, current status, expected date of completion, etc.

Sewage generation in urban areas has increased from 62,000 million litres per day (mld) in 2015 to 71,000 mld in 2019. At present, only 30 per cent of the wastewater generated in the country is treated, offering tremendous potential for wastewater recycling and reuse. Over the past few years, there has been an increasing focus on developing alternative sources of water supply through practices such as recycling and reuse of treated wastewater. Municipal agencies in Delhi, Surat, Bengaluru and Nagpur are successfully using recycled wastewater for non-potable uses. Also, recycled wastewater is being used for industrial and agricultural consumption. Strict regulations and guidelines have been formulated to restrict the use of freshwater. Also, these projects and initiatives have been promoted under various government programmes including the Swachh Bharat Mission, the Atal Mission for Rejuvenation and Urban Transformation, and the Namami Gange programme. Thus, the segment presents significant opportunities for all stakeholders.

1. Sewerage Sector Overview

- ❖ Sewage Generation
- ❖ Treatment Capacity
- ❖ Treatment Generation Gap
- ❖ Standards and Norms
- ❖ Notable Trends
- ❖ Government Initiatives
- ❖ Issues and Challenges
- ❖ Future Projections (till 2024-25)
- ❖ Sector Outlook

2. Municipal Recycle and Reuse Practices

- ❖ Current Scenario
- ❖ Emerging Trends
- ❖ Key Initiatives
- ❖ New Technologies/Innovations
- ❖ Issues and Challenges

3. Industrial Effluent Management Practices

- ❖ Current Effluent Generation
- ❖ Discharge Standards and Norms
- ❖ Existing Treatment Facilities
- ❖ Key Ongoing and Upcoming Facilities
- ❖ Recycle and Reuse Practices
- ❖ Innovations and Advancements
- ❖ Segment Outlook

4. Select Case Studies

- ❖ Municipal
- ❖ Industrial

Each case study will cover information on recycle/reuse initiatives, infrastructure created, sources of wastewater supply, cost of wastewater and tariffs (wherever available), key benefits, lessons learnt and future plans

5. Treatment Technologies and Innovations

- ❖ Key Treatment Technologies
- ❖ Cost and Performance Comparison
- ❖ Current Capacity and Key Plants
- ❖ New Innovations and Advancements

6. Future Requirements and Potential

- ❖ Treated Wastewater in Circular Economy Context
- ❖ Growth Drivers
- ❖ Availability of Treated Wastewater
 - Secondary Treated Wastewater
 - Tertiary Treated Wastewater
- ❖ Key Upcoming Projects/Initiatives
- ❖ Future Outlook and Potential

7. Database of Key Upcoming Projects

- ❖ Planned/Proposed STPs
- ❖ Planned/Proposed CETPs

Each project provides information on the scope of work, location, capacity, implementing agency, developer/contractor, current status, expected date of completion, etc.

I would like to purchase the "Desalination Market in India" report:

I would like to purchase the "Wastewater Treatment and Reuse Market in India" report:

Format (PDF)	By April 30, 2020	By May 20, 2020	After May 20, 2020
Desalination Market in India			
Site Licence (Single Location)	Rs 40,000	Rs 45,000	Rs 50,000
GST @ 18%	Rs 7,200	Rs 8,100	Rs 9,000
Total	<input type="checkbox"/> Rs 47,200	<input type="checkbox"/> Rs 53,100	<input type="checkbox"/> Rs 59,000
<hr/>			
Enterprise Licence (Multiple Locations)	Rs 60,000	Rs 67,500	Rs 75,000
GST @ 18%	Rs 10,800	Rs 12,150	Rs 13,500
Total	<input type="checkbox"/> Rs 70,800	<input type="checkbox"/> Rs 79,650	<input type="checkbox"/> Rs 88,500
<hr/>			
Wastewater Treatment and Reuse Market in India			
Site Licence (Single Location)	Rs 40,000	Rs 45,000	Rs 50,000
GST @ 18%	Rs 7,200	Rs 8,100	Rs 9,000
Total	<input type="checkbox"/> Rs 47,200	<input type="checkbox"/> Rs 53,100	<input type="checkbox"/> Rs 59,000
<hr/>			
Enterprise Licence (Multiple Locations)	Rs 60,000	Rs 67,500	Rs 75,000
GST @ 18%	Rs 10,800	Rs 12,150	Rs 13,500
Total	<input type="checkbox"/> Rs 70,800	<input type="checkbox"/> Rs 79,650	<input type="checkbox"/> Rs 88,500
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Desalination Market in India + Wastewater Treatment and Reuse Market in India (Special Combo Price):			
Site Licence (Single Location)	Rs 64,000	Rs 72,000	Rs 80,000
GST @ 18%	Rs 11,520	Rs 12,960	Rs 14,400
Total	<input type="checkbox"/> Rs 75,520	<input type="checkbox"/> Rs 84,960	<input type="checkbox"/> Rs 94,400
<hr/>			
Enterprise Licence (Multiple Locations)	Rs 96,000	Rs 108,000	Rs 120,000
GST @ 18%	Rs 17,280	Rs 19,440	Rs 21,600
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