

India Wastewater Treatment Plants Market By Type (Municipal & Industrial), By Plant Category (Less Than 50 MLD, 51-100 MLD, 101-200 MLD, 201-500 MLD & Above 501), By Process (Moving Bed Biological Reactor (MBBR), Sequencing Batch Reactor (SBR), By Operating Mode (EPC, BOO & BOOT), By Region, By Competition Forecast & Opportunities, 2018-2028

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Abstracts

The India Wastewater Treatment Plants Market is anticipated to grow at a steady pace in the forecast period, 2024-2028 and growing at a robust CAGR in the forecast period. The need for advanced municipal water & sewage treatment plants in the residential sector and the growing urban population are projected to drive considerable growth in the India wastewater treatment plants market. Through 2025, it is anticipated that the adoption of stringent government restrictions, such as the zero liquid discharge law, would increase demand for wastewater treatment facilities. Nevertheless, changing membrane prices—the primary raw material for wastewater treatment plants—caused by imports may impede the market's expansion in India.

According to a recent study from the Central Pollution Control Board in March 2021, in India, the capacity for treating water is now 27.3%, while the capacity for treating sewage is 18.6% (with an additional 5.2% capacity being built). India's waste and sewage treatment capacity is more than the 20% global average.

Furthermore, according to government statistics, 62.5% of the wastewater in metropolitan India was not or was only partially treated. The nation's problems with water pollution, conservation, recycling, reuse, and recharge are made worse by the inadequate infrastructure for wastewater treatment and poor operational maintenance.

As the nation sees a surge in private investments and the government adopts new business models to entice remote market participants in the sector and accelerate its expansion, the Indian wastewater treatment plants market facilities are anticipated to see a boom in the upcoming years. Also, implementing efficient water management measures can help India achieve an additional 0.5% economic growth, according to the World Bank. It is anticipated that this would cause the country's GDP to expand by 8% annually.

Reuse of sewage treatment water helps to boost the market across the country

Reusing treated sewage is a problem that hasn't received much attention in the policy-making of many state governments. According to the study of the Central Public Health and Environmental Engineering Organization, treated sewage water may be repurposed for horticulture, irrigation, washing tasks (road, cars, and trains), fire-fighting, industrial cooling, toilet flushing, and gardening. The highest percentage of treated sewage is reused in Haryana (80%), followed by Puducherry (55%), Delhi (50%) Chandigarh (35%), Tamil Nadu (25%), Madhya Pradesh (20%), Andhra Pradesh (3%). The Delhi government has set a goal to raise its reuse from 12.5% to 60%. Reusing treated sewage can help cut down on the amount of water that is needed from surface and groundwater resources as well as aquatic sources including rivers, ponds, and lakes. According to the CPCB research, reducing raw water usage help in protecting natural water resources.

Adopting a more sustainable strategy through 3Rs-related activities (Reduce-Recycle-Reuse)

Water recycling is the practise of reusing cleansed wastewater for beneficial purposes such as toilet flushing, industrial processes, watering gardens and farms, and replenishing groundwater basins. Water recycling saves resources and cash. The water quality standards for the planned reuse can be satisfied through wastewater treatment. Every industry values water as a valuable resource. Due to the stringent rules, there isn't much water accessible for industrial and municipal usage. As wastewater reuse is crucial, the 3Rs assist any business in becoming more sustainable.

Government Initiatives

Water (Prevention and Control of Pollution) Act of 1974 (amended 1988): The Central and State Pollution Control Boards (CPCB and SPCBs) were created as a result of this

Act to offer direction, monitor compliance with, and enforce regulations controlling the treatment and disposal of sewage and industrial effluent. All Indian science, technology, and research parks must adhere to the standards established by the CPCB.

Environment (Protection) Act of 1986: The STPs' discharge criteria were governed by this Act. It sets restrictions on the number of different pollutants that can be released into specific environmental zones (land, surface water bodies, marine coastal areas, etc.)

Ganga Action Plan (GAP-I 1985, GAP-II 1993) and National River Conservation Plan: Under GAP-I and GAP-II, the cleaning of the Ganga River and its two principal tributaries, the Yamuna and Gomti, began. It was expanded to cover other rivers as part of the 1995 National River Conservation Plan. Under GAP, sewage treatment capacity of 1098.31 MLD was developed (Dutta, 2020). The steps taken to mitigate pollution include (i) intercepting and rerouting sewage lines for treatment, (ii) creating STPs, (iii) putting in affordable bathrooms, (iv) developing riverbank properties, and (v) promoting public involvement, education, and capacity building.

National Urban Sanitation Policy (2008): This policy has resulted in municipal governments being in control of behavior modification, full sanitation, and totally secure rubbish disposal. It sees cities carrying out long-term plans, prioritising certain areas, and implementing municipal sanitation programmes concurrently while placing a heavy focus on obtaining the participation of all city stakeholders. State governments are responsible for establishing state urban sanitation policies, under which the cities may develop their sanitation programmes.

National Plan for Conservation of Aquatic Ecosystems (NPCA) (2015): The NPCA aims to provide a framework for the preservation and sustainable management of wetlands, with the following goals: (i) creating policy guidelines; (ii) assisting in the development of a national inventory; (iii) supporting, promoting, and strengthening the preservation of wetlands; and (iv) enhancing the capacity of wetlands managers and stakeholders.

Other essential flagship national programs launched by the Government of India: The Namami Gange project was launched in 2015. The government has authorised 161 sewage management projects under the Namami Gange Program, totalling USD3 billion, for the building and restoration of 5501 MLD sewage treatment capacity as well as the installation of 5,134 km of sewerage network. 92 of them adding and renovating 1,643 MLD of STP capacity and building a 4,156 km sewage network—have been completed (PIB, 2022). It also includes sectoral programs that aim to improve both

sewered and unsewered sanitation, such as the Swachh Bharat (Clean India) Mission 2014-2019, the AMRUT Mission 2015-2023, and the Smart City Project 2017-2023.

Market Segmentation

The India Wastewater Treatment Plants Market is divided into Type, Plant Category, Process, Operating Mode, Region and Competitive Landscape. Based on the type, the market is divided into municipal and industrial. Based on the plant category, the market is divided into less than 50 MLD, 51-100 MLD, 101-200 MLD, 201-500 MLD & above 501. Based on the process, the market is divided into Moving Bed Biological Reactor (MBBR), Sequencing Batch Reactor (SBR). Based on operating mode, the market is divided into EPC, BOO & BOOT.

Market Players

Major market players in the India Wastewater Treatment Plants Market are Thermax Ltd, VA Tech Wabag Ltd, Veolia India Private Limited, Ion Exchange India Ltd, Nalco Water India Ltd, Doshion Veolia Water Solutions Pvt Ltd, Larsen & Toubro Limited, Triveni Engineering & Industries Ltd, Paramount Limited, IVRCL Infrastructures & Projects Ltd.

Report Scope:

In this report, the India Wastewater Treatment Plants Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Wastewater Treatment Plants Market, By Type:

Municipal

Industrial

India Wastewater Treatment Plants Market, By Plant Category:

Less Than 50 MLD

51-100 MLD

101-200 MLD

201-500 MLD

Above 501

India Wastewater Treatment Plants Market, By Process:

Moving Bed Biological Reactor (MBBR)

Sequencing Batch Reactor (SBR)

India Wastewater Treatment Plants Market, By Operating Mode:

EPC

BOO

BOOT

India Wastewater Treatment Plants Market, By Region:

North India

South India

West India

East India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Wastewater Treatment Plants Market.

Available Customizations:

Tech Sci Research offers customizations according to a company's specific needs. The

India Wastewater Treatment Plants Market By Type (Municipal & Industrial), By Plant Category (Less Than 50 MLD...

following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. Service Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions & Limitations

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON THE INDIA WASTEWATER TREATMENT PLANTS MARKET

5. VOICE OF CUSTOMERS

6. INDIA WASTEWATER TREATMENT PLANTS MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type (Municipal & Industrial)
 - 6.2.2. By Plant Category (Less Than 50 MLD, 51-100 MLD, 101-200 MLD, 201-500 MLD & Above 501)
 - 6.2.3. By Process (Moving Bed Biological Reactor (MBBR) & Sequencing Batch Reactor (SBR))

- 6.2.4. By Operating Mode (EPC, BOO & BOOT)
- 6.2.5. By Region (North India, South India, West India and East India)
- 6.3. By Company (2022)
- 6.4. Market Map

7. INDIA INDUSTRIAL WASTEWATER TREATMENT PLANTS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Plant Category
 - 7.2.2. By Process
 - 7.2.3. By Industrial End User (Refineries, Pharmaceuticals, Power, Steel, Chemicals, Paper & Pulp, Sugar, Textile, Others)
 - 7.2.4. By Region

8. INDIA MUNICIPAL WASTEWATER TREATMENT PLANTS MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Plant Category
 - 8.2.2. By Process
 - 8.2.3. By Region

9. MARKET DYNAMICS

- 9.1. Drivers
- 9.2. Challenges

10. MARKET TRENDS & DEVELOPMENTS

11. POLICY & REGULATORY LANDSCAPE

12. COMPANY PROFILES

- 12.1. Thermax Ltd

- 12.1.1. Business Overview
- 12.1.2. Key Revenue and Financials (If Available)
- 12.1.3. Recent Developments
- 12.1.4. Key Personnel
- 12.1.5. Key Product/Services
- 12.2. VA Tech Wabag Ltd
 - 12.2.1. Business Overview
 - 12.2.2. Key Revenue and Financials (If Available)
 - 12.2.3. Recent Developments
 - 12.2.4. Key Personnel
 - 12.2.5. Key Product/Services
- 12.3. Veolia India Private Limited
 - 12.3.1. Business Overview
 - 12.3.2. Key Revenue and Financials (If Available)
 - 12.3.3. Recent Developments
 - 12.3.4. Key Personnel
 - 12.3.5. Key Product/Service
- 12.4. Ion Exchange India Ltd
 - 12.4.1. Business Overview
 - 12.4.2. Key Revenue and Financials (If Available)
 - 12.4.3. Recent Developments
 - 12.4.4. Key Personnel
 - 12.4.5. Key Product/Service
- 12.5. Nalco Water India Ltd
 - 12.5.1. Business Overview
 - 12.5.2. Key Revenue and Financials (If Available)
 - 12.5.3. Recent Developments
 - 12.5.4. Key Personnel
 - 12.5.5. Key Product/Services
- 12.6. Doshion Veolia Water Solutions Pvt Ltd
 - 12.6.1. Business Overview
 - 12.6.2. Key Revenue and Financials (If Available)
 - 12.6.3. Recent Developments
 - 12.6.4. Key Personnel
 - 12.6.5. Key Product/Services
- 12.7. Larsen & Toubro Limited
 - 12.7.1. Business Overview
 - 12.7.2. Key Revenue and Financials (If Available)
 - 12.7.3. Recent Developments

12.7.4. Key Personnel

12.7.5. Key Product/Services

12.8. Triveni Engineering & Industries Ltd

12.8.1. Business Overview

12.8.2. Key Revenue and Financials (If Available)

12.8.3. Recent Developments

12.8.4. Key Personnel

12.8.5. Key Product/Services

12.9. Paramount Limited

12.9.1. Business Overview

12.9.2. Key Revenue and Financials (If Available)

12.9.3. Recent Developments

12.9.4. Key Personnel

12.9.5. Key Product/Services

12.10. IVRCL Infrastructures & Projects Ltd

12.10.1. Business Overview

12.10.2. Key Revenue and Financials (If Available)

12.10.3. Recent Developments

12.10.4. Key Personnel

12.10.5. Key Product/Services

13. STRATEGIC RECOMMENDATIONS

14. ABOUT US & DISCLAIMER

The data given for any year represents the market during the period, i.e., 1st April of the former year to 31st March of latter year. Eg: For FY2023E, the data represents the period, 1st April 2022 to 31st March 2023.

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