

India Water and Wastewater Treatment Chemicals Market By Chemical Type (Coagulant & Flocculant, Biocide & Disinfectant, Corrosion & Scale Inhibitor, pH Adjuster, Others), By End User (Oil & Gas, Pharmaceutical, Chemicals, FMCG, Others), By Region, Competition, Forecast and Opportunities, 2019-2029

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Abstracts

India Water and Wastewater Treatment Chemicals Market is anticipated to project robust growth in the forecast period. In recent years, the Indian water and wastewater treatment chemicals market has witnessed a significant rise. This growth can be attributed to several factors, including rapid urbanization, industrialization, and a growing awareness about the importance of water conservation. As industries, such as oil refineries, continue to expand, the demand for water treatment chemicals has also increased, further driving the market's growth.

While the COVID-19 pandemic initially had a negative impact on the market, it also served as a wake-up call for the importance of clean water and sanitation. This realization has led to a surge in the demand for water and wastewater treatment chemicals, as both individuals and organizations strive to ensure the availability of safe and hygienic water resources.

In conclusion, the Indian water and wastewater treatment chemicals market is on a promising growth trajectory. This growth is fueled by increased environmental consciousness, government regulations, and the ever-growing industry demand. Despite the challenges posed by the COVID-19 pandemic, the sector is poised for significant expansion in the coming years, as the need for sustainable water

management becomes increasingly paramount.

Key Market Drivers

Growing Demand of Water and Wastewater Treatment Chemicals from Oil & Gas Industry

The water and wastewater treatment chemicals market in India is witnessing significant growth, fueled by a variety of factors. One key driver behind this growth is the increasing demand from the oil and gas industry. As the industry expands, so does its consumption of water and the subsequent need for effective water treatment solutions.

Water plays a crucial role in the oil and gas industry, being extensively used in drilling operations, oil recovery, and refining processes. However, such usage generates large volumes of wastewater, which needs to be treated before it can be safely discharged or reused. This has led to an increased demand for water and wastewater treatment chemicals that can efficiently and effectively address the specific challenges posed by the oil and gas industry.

Moreover, in addition to the operational needs, the oil and gas industry is under increasing pressure to reduce its environmental impact. Government regulations and public scrutiny are driving companies to invest in advanced water and wastewater treatment technologies that can not only meet the industry's needs but also align with the principles of environmental sustainability. This emphasis on environmental responsibility is further fueling the demand for treatment chemicals that can help the industry meet its water management and wastewater treatment goals.

In conclusion, the growing demand from the oil and gas industry is a significant driver of the water and wastewater treatment chemicals market in India. With the industry's expansion and the increasing emphasis on environmental sustainability, the demand for these chemicals is expected to continue rising in the future. Meeting the unique challenges of the oil and gas industry while ensuring efficient and sustainable water management remains a priority, making the development and adoption of innovative treatment chemicals crucial for the continued growth of the market.

Growing Demand of Water and Wastewater Treatment Chemicals from Pharmaceutical Industry

The pharmaceutical sector heavily relies on water for various critical processes such as

formulation, extraction, and cleaning. During these processes, it is imperative to use water of the highest quality to ensure the safety and efficacy of the drugs produced. As a result, the utilization of water treatment chemicals becomes essential to purify the water used in pharmaceutical manufacturing, guaranteeing the integrity of the end products.

Moreover, the pharmaceutical industry generates substantial volumes of wastewater that contain residues of active pharmaceutical ingredients and other chemicals. These residues, if not properly treated before discharge, can have detrimental effects on the environment and human health. The proper treatment of this effluent is crucial to mitigate any potential harm, leading to an increased demand for wastewater treatment chemicals that effectively address this issue.

Additionally, the stringent regulatory landscape plays a significant role in driving the demand for water and wastewater treatment chemicals. Regulatory bodies like the Central Pollution Control Board (CPCB) in India have imposed strict guidelines for the discharge of pharmaceutical effluents. Compliance with these regulations is not only necessary but also reinforces the demand for effective treatment chemicals that meet the required standards.

In conclusion, the growing demand from the pharmaceutical industry serves as a significant driver for the water and wastewater treatment chemicals market in India. As the pharmaceutical sector continues to expand and regulatory pressures intensify, the demand for these chemicals is expected to rise even further in the future. This trend underscores the critical role that water, and wastewater treatment chemicals play in ensuring the sustainable and responsible growth of the pharmaceutical industry.

Key Market Challenges

Rise in Industrial Pollution

Industrial pollution has escalated rapidly due to the industrial revolution and rapid urbanization. Industries such as manufacturing, textiles, pharmaceuticals, and oil and gas generate substantial volumes of wastewater. This wastewater often contains harmful contaminants that can have a detrimental impact on the environment and human health.

The increased industrial pollution has led to a surge in organic matter in water, largely due to increased industrial and municipal wastewater discharge. This rise in pollution

levels necessitates the use of water and wastewater treatment chemicals. However, it also poses several challenges for the market.

One of the primary challenges is the high cost of water treatment plants. The cost of establishing these facilities often hinders market growth, as industries may be reluctant to invest in advanced water treatment technologies due to financial constraints. This challenge is further exacerbated by the fact that the treatment of industrial wastewater is often more complex and costly than treating domestic wastewater because of the diverse nature of industrial pollutants.

Furthermore, while the demand for water treatment chemicals is growing, the supply chain can struggle to keep up, especially given the increased pressure on resources due to the rise in industrial pollution.

In conclusion, while the water and wastewater treatment chemicals market in India shows promising growth, the rise in industrial pollution presents a significant challenge. Overcoming this will require investment in advanced treatment technologies, better resource management, stringent regulations to control industrial pollution, and collaboration between industries, government bodies, and environmental organizations. Additionally, raising public awareness about the importance of sustainable industrial practices and encouraging responsible waste management can help mitigate the detrimental impacts of industrial pollution on the environment and human health.

Key Market Trends

Rapid Urbanization and Industrialization

Urbanization, the ongoing shift in population from rural to urban areas, has been accelerating at an unprecedented rate in India. This rapid urbanization is being driven by factors such as increasing job opportunities, improved infrastructure, and better access to amenities in urban centers. As more people flock to cities, the demand for clean water has surged, encompassing various purposes including drinking, sanitation, and industrial use.

Industrialization, on the other hand, has played a significant role in India's economic growth. Industries such as textiles, pharmaceuticals, manufacturing, and oil and gas have witnessed remarkable expansion, contributing to the overall development of the country. However, along with industrial growth comes the challenge of managing wastewater. These industries generate substantial volumes of wastewater that require

proper treatment before being discharged or reused.

The twin forces of urbanization and industrialization have thus created a pressing need for water and wastewater treatment chemicals in India. These chemicals play a vital role in purifying water for consumption and treating industrial wastewater to remove harmful contaminants, ensuring the protection of the environment.

Another important aspect of this trend is the growing awareness about the importance of water conservation and environmental protection. With the rise in urban population and industrial activities, there is a heightened recognition of the need to manage water resources efficiently and minimize the environmental impact of industrial operations. This awareness has led to increased efforts to implement sustainable water use practices and reduce pollution, supported by government initiatives and regulations.

In conclusion, the ongoing trends of rapid urbanization and industrialization have significantly influenced the water and wastewater treatment chemicals market in India. As these trends continue to shape the country's landscape, the demand for these chemicals is expected to grow further, presenting lucrative opportunities for market players to contribute to sustainable development and address water-related challenges.

Segmental Insights

Chemical Type Insights

Based on the category of chemical type, the coagulant & flocculant segment emerged as the dominant player in the Indian market for water soluble polymers in 2023. India's water and wastewater treatment chemicals market is experiencing significant growth, driven by the increasing demand for effective purification and treatment solutions. Within this sector, coagulants and flocculants have emerged as dominant players, playing a crucial role in ensuring the quality and safety of water resources.

Coagulants and flocculants are essential chemicals utilized in the purification and treatment of water. These chemicals work by effectively removing suspended solids, organic matter, and other pollutants from water sources. By causing fine particles to aggregate into larger flocs, coagulants and flocculants facilitate the easy removal of impurities, thus improving water clarity and reducing turbidity. Moreover, their application aids in the elimination of harmful bacteria, enhancing the overall aesthetic qualities of water.

The prevalence of coagulants and flocculants in the market can be attributed to various factors. Firstly, these chemicals find extensive usage across diverse industries such as manufacturing, oil and gas, and pharmaceuticals, where large volumes of wastewater are generated and require treatment. Their versatility and effectiveness make them indispensable in addressing the unique challenges posed by different industrial processes.

Secondly, the rapid pace of urbanization and industrialization in India has led to a surge in water pollution levels. The need for efficient and sustainable water treatment methods has become paramount in order to safeguard public health and protect the environment. Coagulants and flocculants play a vital role in mitigating water pollution by effectively removing contaminants and restoring water quality.

In conclusion, the role of coagulants and flocculants in India's water and wastewater treatment chemicals market cannot be overstated. Their effectiveness, versatility, and widespread usage across various industries make them essential components of water treatment processes. As India continues to face the challenges posed by water pollution, the demand for these chemicals is expected to grow, further driving the market's expansion and development.

End User Insights

The others segment is projected to experience rapid growth during the forecast period. This dominance can be attributed to several factors. Firstly, the power industry is one of the largest consumers of water globally, relying on it for various processes such as cooling, boiler feed, and flue gas cleaning. With the substantial water usage, the industry generates a significant amount of wastewater that necessitates effective treatment before it can be safely discharged or reused.

Secondly, the power industry's stringent water quality requirements are driven by the need to maintain optimal equipment performance and prevent issues like scaling, corrosion, and fouling. High-quality water is essential for the efficient operation of power plants, making the use of water and wastewater treatment chemicals vital in ensuring the necessary water quality standards are met.

Thirdly, the power sector operates under strict environmental regulations that govern the discharge of wastewater from power plants. These regulations aim to protect the environment by mandating the removal of harmful pollutants from wastewater before it can be released into the surrounding ecosystem. The regulatory pressure further

intensifies the demand for water and wastewater treatment chemicals in the power industry.

Given these factors, the power industry's reliance on water and the need for effective treatment solutions underscore the critical role of water and wastewater treatment chemicals in ensuring sustainable and environmentally responsible operations.

Regional Insights

West India emerged as the dominant player in the India Water and Wastewater Treatment Chemicals Market in 2023, holding the largest market share in terms of value. The dominance of West India in the field of wastewater treatment can be attributed to several key factors. Firstly, the region is home to some of the country's most industrialized states, including Maharashtra and Gujarat. These states boast a significant concentration of industries such as textiles, chemicals, pharmaceuticals, and oil & gas, which generate substantial volumes of wastewater that necessitate effective treatment.

Secondly, the region has experienced rapid urbanization in recent years, resulting in an increased demand for clean water for various purposes such as drinking and sanitation. This surge in demand has further emphasized the importance of implementing efficient water treatment measures to ensure the supply of safe and clean water to the growing population.

The combination of these factors has created a pressing need for the use of water treatment chemicals in West India. These chemicals play a crucial role in ensuring the efficient treatment of wastewater, enabling the region to meet the rising demand for clean water while addressing environmental concerns.

Key Market Players

NALCO Water India Limited

SUEZ India Pvt. Ltd.

Thermax India Ltd.

Ion Exchange India Ltd.

BASF India Ltd.

SNF India Pvt. Ltd.

Report Scope:

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

India Water and Wastewater Treatment Chemicals Market, By Chemical Type:

Coagulant & Flocculant

Biocide & Disinfectant

Corrosion & Scale Inhibitor

pH Adjuster

Others

India Water and Wastewater Treatment Chemicals Market, By End User:

Oil & Gas

Pharmaceutical

Chemicals

FMCG

Others

India Water and Wastewater Treatment Chemicals Market, By Region:

North India

East India

West India

South India

Competitive Landscape

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

Available Customizations:

India Water and Wastewater Treatment Chemicals Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

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

Contents

1. PRODUCT 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 Applications
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. INDIA WATER AND WASTEWATER TREATMENT CHEMICALS MARKET OUTLOOK

- 4.1. Market Size & Forecast
 - 4.1.1. By Value
- 4.2. Market Share & Forecast
 - 4.2.1. By Chemical Type (Coagulant & Flocculant, Biocide & Disinfectant, Corrosion & Scale Inhibitor, pH Adjuster, Others)
 - 4.2.2. By End User (Oil & Gas, Pharmaceutical, Chemicals, FMCG, Others)
 - 4.2.3. By Region
 - 4.2.4. By Company (2023)

4.3. Market Map

- 4.3.1. By Chemical Type
- 4.3.2. By End User
- 4.3.3. By Region

5. NORTH INDIA WATER AND WASTEWATER TREATMENT CHEMICALS MARKET OUTLOOK

5.1. Market Size & Forecast

- 5.1.1. By Value

5.2. Market Share & Forecast

- 5.2.1. By Chemical Type
- 5.2.2. By End User
- 5.2.3. By State (Top 3 States)

6. SOUTH INDIA WATER AND WASTEWATER TREATMENT CHEMICALS MARKET OUTLOOK

6.1. Market Size & Forecast

- 6.1.1. By Value

6.2. Market Share & Forecast

- 6.2.1. By Chemical Type
- 6.2.2. By End User
- 6.2.3. By State (Top 3 States)

7. WEST INDIA WATER AND WASTEWATER TREATMENT CHEMICALS MARKET OUTLOOK

7.1. Market Size & Forecast

- 7.1.1. By Value

7.2. Market Share & Forecast

- 7.2.1. By Chemical Type
- 7.2.2. By End User
- 7.2.3. By State (Top 3 States)

8. EAST INDIA WATER AND WASTEWATER TREATMENT CHEMICALS MARKET OUTLOOK

8.1. Market Size & Forecast

- 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Chemical Type
 - 8.2.2. By End User
 - 8.2.3. By State (Top 3 States)

9. MARKET DYNAMICS

- 9.1. Drivers
- 9.2. Challenges

10. MARKET TRENDS & DEVELOPMENTS

- 10.1. Recent Developments
- 10.2. Product Launches
- 10.3. Mergers & Acquisitions

11. POLICY & REGULATORY LANDSCAPE

12. INDIA ECONOMIC PROFILE

13. COMPETITIVE LANDSCAPE

- 13.1. NALCO Water India Limited
 - 13.1.1. Business Overview
 - 13.1.2. Company Snapshot
 - 13.1.3. Products & Services
 - 13.1.4. Current Capacity Analysis
 - 13.1.5. Financials (In case of listed)
 - 13.1.6. Recent Developments
 - 13.1.7. SWOT Analysis
- 13.2. SUEZ India Pvt. Ltd.
- 13.3. Thermax India Ltd.
- 13.4. Ion Exchange India Ltd.
- 13.5. BASF India Ltd.
- 13.6. SNF India Pvt. Ltd.

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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