

India Oxygen Cylinders Market Report and Forecast 2025-2034

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Report description:

India Oxygen Cylinders Market Report and Forecast 2025-2034

The India oxygen cylinders market was valued at USD 438.52 million in 2024 driven by the increasing investments in oxygen production facilities and rising demand for medical grade oxygen across healthcare and industrial sectors across the region. It is expected to grow at a CAGR of 6.80% during the forecast period of 2025-2034 and attain a market value of USD 846.65 million by 2034.

India Oxygen Cylinders Market Analysis

The oxygen cylinders market in India plays a crucial role in the healthcare, industrial, and homecare sectors. Oxygen cylinders are essential for respiratory support in hospitals, emergency care, and home-based therapies. The increasing demand for medical oxygen, driven by the growing prevalence of respiratory diseases and critical care needs, has propelled the market forward. Additionally, industrial applications, including manufacturing and welding, further contribute to market growth. The COVID-19 pandemic highlighted the significance of oxygen supply, leading to capacity expansion and infrastructure improvements.

Market Drivers

- Rising Respiratory Disorders - The increasing incidence of chronic respiratory diseases such as chronic obstructive pulmonary disease (COPD), asthma, and pneumonia has significantly increased the demand for oxygen cylinders in medical applications.
- Growing Healthcare Infrastructure - India's expanding hospital network, coupled with rising government initiatives to enhance healthcare accessibility, is driving demand for oxygen supply systems.
- Industrial and Commercial Demand - Beyond healthcare, oxygen cylinders are widely used in sectors such as metallurgy, chemicals, and construction, supporting steady market expansion.
- Government Initiatives & Emergency Preparedness - The Indian government has launched various initiatives to strengthen oxygen supply chains, especially after the COVID-19 crisis, ensuring better availability during emergencies.

Market Challenges

- Supply Chain Constraints - Despite growth, challenges such as logistical inefficiencies and distribution bottlenecks hinder market expansion, particularly in rural areas.
- High Initial Costs - Oxygen cylinder procurement, maintenance, and refilling costs can be burdensome for small healthcare facilities and individuals relying on homecare solutions.

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-□Safety Concerns & Regulations - Stringent safety regulations regarding cylinder storage, handling, and transportation require compliance, increasing operational complexities for manufacturers and suppliers.

Future Opportunities

-□Technological Advancements - The development of lightweight, portable, and refillable oxygen cylinders can enhance accessibility and ease of use for homecare patients.

-□Expansion in Home Healthcare - The rising preference for home-based oxygen therapy, driven by ageing populations and chronic disease management, presents a strong growth opportunity.

-□Government Investment in Healthcare Infrastructure - Increased investments in oxygen generation plants and improved medical facilities will create a sustained demand for oxygen cylinders across India.

India Oxygen Cylinders Market Trends

The India oxygen cylinders market is experiencing steady growth, driven by increasing medical demand, industrial applications, and technological advancements. Key market trends indicate a shift towards innovation, enhanced safety standards, and expanded healthcare accessibility.

1. Rising Demand for Portable and Lightweight Cylinders

With a growing preference for home-based oxygen therapy, there is increasing demand for lightweight and portable cylinders. These cylinders improve patient mobility and convenience, making them ideal for elderly and chronically ill individuals. Manufacturers are focusing on developing compact, refillable, and easy-to-handle oxygen solutions to cater to this trend.

2. Growth in Home Healthcare Solutions

The expansion of home healthcare services has boosted the adoption of oxygen cylinders for long-term oxygen therapy (LTOT). This trend is driven by an ageing population, a rise in respiratory diseases, and advancements in remote monitoring technologies that ensure efficient oxygen delivery and patient safety.

3. Increasing Government Investments in Oxygen Infrastructure

Post-pandemic, the Indian government has prioritised strengthening medical oxygen supply chains by investing in oxygen generation plants, storage facilities, and improved distribution networks. Public-private partnerships (PPPs) and policy reforms are facilitating better availability of oxygen cylinders, particularly in rural and semi-urban areas.

4. Technological Advancements and Smart Oxygen Systems

Manufacturers are integrating smart monitoring systems into oxygen cylinders to enhance safety and efficiency. Digital flow meters, pressure sensors, and IoT-enabled devices allow real-time tracking of oxygen levels, ensuring timely refills and reducing wastage. This trend is expected to revolutionise the market by improving reliability in both medical and industrial applications.

5. Expanding Industrial and Commercial Applications

Beyond healthcare, oxygen cylinders are increasingly used in industries such as metal fabrication, chemical processing, and water treatment. The rising demand for high-purity oxygen in these sectors is driving market growth, encouraging manufacturers to diversify their product offerings.

6. Sustainability and Eco-Friendly Innovations

With environmental concerns gaining attention, the industry is witnessing a shift towards reusable and energy-efficient oxygen storage solutions. Innovations in recyclable cylinder materials and sustainable manufacturing practices are gaining traction, aligning with global sustainability goals.

India Oxygen Cylinders Market Segmentation

Market Breakup by Product Type

-□Fixed

-□Portable

Fixed oxygen cylinders dominate the market due to their extensive use in hospitals and industrial applications, supported by rising healthcare infrastructure investments. Portable cylinders, driven by increasing home healthcare adoption and patient preference for mobility, are experiencing rapid growth. Technological advancements in lightweight materials and improved portability enhance their appeal. As demand for home-based therapies rises, portable oxygen cylinders will play a crucial role in expanding market accessibility. Fixed cylinders, however, will continue driving market stability through hospital and industrial demand, ensuring balanced market growth in the forecast period.

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Market Breakup by Product Size

- Less than 10 liter
- 10 liter - 50 liter
- More than 50 liter

Oxygen cylinders of less than 10 litres are gaining traction in homecare and emergency medical services due to their portability and ease of use. The 10 to 50-litre segment dominates the market, serving hospitals, clinics, and industrial applications, benefitting from rising healthcare demand. More than 50-litre cylinders are crucial for large-scale oxygen storage in medical and industrial sectors. Increasing demand for high-capacity cylinders in hospitals and manufacturing units will drive growth in this segment, while compact cylinders will witness higher adoption in household and ambulatory care, ensuring diversified market expansion.

Market Breakup by Technology

- Continuous Flow
- Pulse Flow

Continuous flow oxygen cylinders lead the market due to their widespread use in hospitals and emergency care, ensuring a steady oxygen supply for critically ill patients. Pulse flow technology, designed for homecare and portable use, is gaining popularity as it optimises oxygen consumption, extending cylinder life and reducing refilling costs. The increasing demand for personalised healthcare and efficient oxygen delivery solutions is driving advancements in pulse flow technology. While continuous flow remains dominant in clinical settings, the rising adoption of pulse flow for ambulatory and homecare use will fuel market expansion in the coming years.

Market Breakup by Application

- Respiratory Department
- Emergency Room
- Household
- Operating Room
- Others

The respiratory department holds the largest market share due to rising cases of chronic respiratory diseases and critical care needs. The emergency room segment benefits from increasing trauma cases and immediate oxygen therapy requirements. Household applications are growing rapidly, driven by the demand for home-based oxygen therapy solutions. Operating rooms rely on oxygen cylinders for surgical procedures, ensuring stable market demand. The others category includes applications in ambulatory care and specialty clinics, contributing to market diversification. Rising healthcare awareness and the expansion of hospital infrastructure will drive growth across all application segments.

Market Breakup by End User

- Hospitals and Clinics
- Ambulatory Surgical Centers
- Long term Care Centers
- Others

Hospitals and clinics dominate the market, supported by increasing hospitalisation rates, respiratory diseases, and government healthcare investments. Ambulatory surgical centres (ASCs) are experiencing steady growth due to the rising preference for outpatient procedures. Long-term care centres, catering to elderly and chronic disease patients are seeing increased oxygen therapy adoption. The others category, including homecare settings and rehabilitation centres, is growing with technological advancements in portable oxygen cylinders. The expansion of healthcare services, coupled with rising demand for efficient oxygen delivery across diverse healthcare settings, will drive robust market growth in the forecast period.

India Oxygen Cylinders Market Competitive Landscape

The market is highly competitive, with key players focusing on innovation, expansion, and strategic collaborations. Rama Cylinders Pvt. Ltd., Everest Kanto Cylinder, Shaba Cylinders, BGL Cylinders Industries, Luxfer Gas Cylinders, and Al-can Exports Private Limited are among the leading companies driving market growth. Businesses are actively engaging in mergers and acquisitions to strengthen market presence and expand production capacities. Research and development initiatives are

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enhancing cylinder efficiency, safety, and portability. Companies are also launching new product lines, investing in lightweight and smart oxygen cylinders, and forming partnerships with healthcare providers to meet rising demand.

Key Questions Answered in the Report

- ?□What are the key drivers propelling the growth of the India oxygen cylinders market?
- ?□How is the demand for portable oxygen cylinders influencing market expansion in India?
- ?□What role does government investment play in strengthening India's oxygen supply infrastructure?
- ?□How are technological advancements shaping the future of oxygen cylinders in India?
- ?□What challenges does the India oxygen cylinder market face in terms of supply and distribution?
- ?□Why is the 10 to 50-litre oxygen cylinder segment dominating the market?
- ?□How is the rise of home healthcare driving demand for oxygen cylinders in India?
- ?□What are the benefits of pulse flow technology in oxygen cylinders for homecare applications?
- ?□How are mergers, acquisitions, and partnerships influencing competition in the India oxygen cylinder market?
- ?□What sustainability initiatives are companies adopting to develop eco-friendly oxygen cylinder solutions?

Key Benefits for Stakeholders

?□The industry report offers a comprehensive quantitative analysis of various market segments, historical and current market trends, market forecasts, and dynamics of the India oxygen cylinders market from 2018-2034.

?□The research report provides the latest information on the market drivers, challenges, and opportunities in the India oxygen cylinders market.

?□The study maps the leading, as well as the fastest-growing, regional markets. It further enables stakeholders to identify the key country-level markets within each region.

?□Porter's five forces analysis assists stakeholders in assessing the impact of new entrants, competitive rivalry, supplier power, buyer power, and the threat of substitution. It helps stakeholders to analyze the level of competition within the India oxygen cylinders industry and its attractiveness.

?□The competitive landscape allows stakeholders to understand their competitive environment and provides insight into the current positions of key players in the market.

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