

India Oxygen Cylinders Market By Type (Portable, Installed), By Sales Channel (Wholesalers/Distributors/Suppliers, Online, Direct Sales), By Material Type (Stainless Steel, Aluminium, Others), By Source (Import, Domestic), By Region, Competition, Forecast and Opportunities, 2019-2029F

<https://marketpublishers.com/r/I6187595E35DEN.html>

Date: April 2024

Pages: 83

Price: US\$ 3,500.00 (Single User License)

ID: I6187595E35DEN

Abstracts

India Oxygen Cylinders Market was valued at USD 95.70 million in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 3.86% through 2029. India's response to the recent surge in oxygen demand has been multi-sectoral and comprehensive. With the aim of meeting the growing need for oxygen, the country has taken steps to address the issue from various angles. The estimated split of the liquid oxygen system (LOX) and gas cylinders system (GOX) stands at 70% and 30% respectively, highlighting the emphasis on both forms of oxygen supply. Despite having an impressive oxygen capacity of 20,000 tonnes per day, a significant portion of it, around 90%, remains untapped and idle. This untapped potential indicates a promising market for oxygen cylinders, which can be further explored to meet the rising demand.

The demand for liquid oxygen extends beyond the medical sector. The aerospace industry, with its reliance on oxygen for aircraft propulsion systems, has also contributed to the growing need for liquid oxygen in India. This added dimension has fueled the growth of the liquid oxygen market, creating additional opportunities for suppliers and manufacturers.

Recognizing the urgent need for oxygen, the government has played a crucial role in scaling up production to address oxygen shortages effectively. Production capacity has

been significantly increased from 9960 metric tons to 18,836 metric tons, demonstrating the government's commitment to ensuring a sufficient and uninterrupted supply of oxygen to those in need.

Amidst these efforts, a concerning black market for oxygen has emerged in India. Medical-grade oxygen cylinders are being sold at exorbitant prices, taking advantage of the high demand and scarcity. This situation underscores the need for more stringent regulations and increased transparency in the oxygen cylinders market. By implementing measures to prevent such black market activities, the government can ensure that oxygen reaches those who need it the most, at fair and affordable prices.

Key Market Drivers

Growing Prevalence of Respiratory Disorders

India carries a disproportionately high burden of respiratory diseases, including asthma, chronic obstructive pulmonary disease (COPD), and lung cancer. These conditions have a significant impact on the population, with COPD and asthma ranking among the top causes of morbidity and mortality in the country according to the Global Burden of Disease Study. It is estimated that more than 37 million people in India suffer from asthma, while approximately 56 million are affected by COPD.

Oxygen therapy plays a critical role in the management and treatment of various respiratory conditions. By ensuring adequate oxygen levels in the blood, it helps alleviate symptoms and significantly improves the quality of life for patients in the demand the demand for oxygen therapy. demand for oxygen therapy and related equipment Given the rising prevalence of, such as oxygen cylinders.

The respiratory disorders in India, there has been a notable increase in the demand for oxygen therapy and related equipment, such as oxygen cylinders.

The ongoing COVID-19 pandemic has further highlighted the crucial role of oxygen therapy. Many patients with severe COVID-19 require supplemental oxygen to manage their symptoms and improve their chances of recovery. This unprecedented surge in demand for medical oxygen has put immense pressure on India's healthcare system and has exposed vulnerabilities and gaps in the oxygen supply chain.

The need for a comprehensive approach to address respiratory diseases and ensure access to oxygen therapy has become even more apparent. It is essential to strengthen

healthcare infrastructure, enhance the availability of medical oxygen, and develop sustainable solutions to meet the growing demand. By focusing on these aspects, we can better support individuals with respiratory conditions and ensure the provision of life-saving oxygen therapy, even in times of crisis.

Development in Healthcare Infrastructure

The Indian government has been making substantial and dedicated efforts to improve the country's healthcare infrastructure. Recognizing the need to address regional disparities in the accessibility of affordable and reliable tertiary healthcare services, the Pradhan Mantri Swasthya Suraksha Yojana (PMSSY) scheme has been introduced. This visionary initiative aims not only to bridge the gaps but also to enhance the facilities for quality medical education across the nation.

As part of this scheme, the government is setting up new AIIMS (All India Institutes of Medical Sciences) and upgrading existing government medical colleges. These strategic measures inherently lead to an increased demand for medical oxygen cylinders, ensuring that adequate healthcare resources are available to the growing population.

The COVID-19 pandemic has shed light on the critical significance of having a robust and resilient healthcare infrastructure. The unprecedented surge in the demand for medical oxygen during the peak periods of the pandemic revealed vulnerabilities in the oxygen supply chain, compelling the government to take swift action to bolster oxygen supply management.

In response to this urgent need, the government has scaled up the production of medical oxygen and initiated the establishment of Pressure Swing Adsorption (PSA) oxygen plants throughout the country. These state-of-the-art plants, once fully operational, will significantly enhance the availability of oxygen cylinders, further catalyzing the growth of the market and ensuring that sufficient oxygen resources are accessible to those in need.

Key Market Challenges

Disruptions in Supply Chain

Supply chains play a crucial and intricate role in ensuring the availability and accessibility of life-saving oxygen cylinders. From the production of oxygen to its

storage, transportation, and delivery to end-users, a series of interconnected activities form the backbone of these supply chains. However, any disruption in these processes can have far-reaching consequences, leading to shortages and impacting the ability to effectively meet the overwhelming demand.

The COVID-19 pandemic has brought the issue of supply chain disruptions to the forefront, exposing the vulnerabilities within these critical systems. During the peak of the pandemic, India experienced an unprecedented surge in the demand for medical oxygen. Unfortunately, the country struggled to meet this overwhelming demand due to a multitude of supply chain challenges.

One of the key challenges was the geographical mismatch between the production and consumption of medical oxygen. The majority of oxygen production facilities are concentrated in Eastern India, while the highest demand originated from densely populated cities in Western and Northern India. This spatial disparity created immense difficulties in transporting oxygen cylinders to the areas where they were most needed, exacerbating the crisis.

Key Market Trends

Technological Advancements in Cylinder Design

Traditionally, oxygen cylinders were large, heavy, and challenging to transport. However, over the years, significant technological advancements have revolutionized the design of these cylinders, resulting in more portable and user-friendly options. These innovations have not only enhanced the functionality of oxygen cylinders but also prioritized safety, efficiency, and convenience.

One of the most notable advancements in cylinder design is the development of lightweight and portable cylinders. Utilizing materials like aluminum and carbon fiber, these cylinders have significantly reduced weight compared to their traditional steel counterparts. This reduction in weight makes them incredibly easy to handle and transport, benefiting both medical professionals and patients. The portability of these cylinders is particularly advantageous for individuals requiring oxygen therapy, as it allows them to maintain their mobility and independence without compromising on the quality of care they receive.

In addition to improved portability, the industry has witnessed the emergence of smart oxygen cylinders. Equipped with digital interfaces, these cutting-edge cylinders enable

users to monitor the remaining amount of oxygen and adjust the flow rate as needed. Some advanced models even offer remote monitoring capabilities, empowering healthcare providers to track patients' oxygen usage and provide timely interventions when necessary. This integration of technology enhances patient safety, optimizes oxygen delivery, and streamlines medical care.

Recognizing the importance of safety, manufacturers have also made significant advancements in the design of oxygen cylinders. Innovations such as pressure regulators and integrated valve systems have made cylinders safer to use, minimizing the risk of accidents and ensuring optimal oxygen flow. Moreover, some cylinders are now equipped with protective casings that act as an additional layer of defense, safeguarding the cylinder and reducing the potential for damage.

These remarkable developments in oxygen cylinder technology have revolutionized the industry, providing enhanced functionality, safety, and convenience. As the demand for portable and user-friendly solutions continues to grow, it is evident that these advancements will play a pivotal role in improving the quality of care and the overall well-being of individuals relying on oxygen therapy.

Segmental Insights

Type Insights

Based on the category of type, the portable segment emerged as the dominant player in the Indian market for oxygen cylinders in 2023. The primary reason behind the dominance of the portable oxygen cylinder segment is the increased mobility and convenience it offers. Unlike traditional oxygen cylinders, which are typically large and cumbersome, portable oxygen cylinders are specifically designed to be lightweight and compact. This allows patients to easily carry them wherever they go, whether it's for a short walk in the park or a long-distance trip.

Technological advancements have played a significant role in the rise of portable oxygen cylinders. Innovations in cylinder design have led to the development of smaller, lighter, and more efficient cylinders, making them even more practical for everyday use. Additionally, some portable oxygen cylinders now come equipped with digital interfaces, enabling users to monitor their oxygen levels and adjust flow rates as needed. This added feature provides users with more control and peace of mind, ensuring they receive the optimal amount of oxygen for their specific needs.

Sales Channel Insights

The online segment is projected to experience rapid growth during the forecast period. The online market revolution has truly transformed the accessibility of oxygen cylinders for consumers across India. With just a few clicks, customers from any corner of the country can now easily order oxygen cylinders, bridging the gap in medical supplies, especially in remote areas where scarcity is a common challenge.

Online platforms provide a plethora of options that surpass the limitations of physical stores. Customers can explore and compare different brands, models, and prices, empowering them to make informed decisions tailored to their specific needs and budget.

One of the driving factors behind the rapid growth of online shopping is the unparalleled convenience it offers. Customers can browse, select, and purchase products at any time and from anywhere, eliminating the need for time-consuming visits to physical stores. The convenience factor has undoubtedly played a significant role in the increasing popularity of online shopping, making it a preferred choice for many.

Regional Insights

West India emerged as the dominant player in the India Oxygen Cylinders Market in 2023, holding the largest market share in terms of both value and volume. West India boasts a significant industrial presence, with numerous manufacturing units strategically located across the region. These industries, which play a pivotal role in various sectors, including oxygen production, have been instrumental in meeting the increased demand for oxygen cylinders in the area. During the COVID-19 crisis, the Indian government took proactive measures by redirecting all industrially produced oxygen for medical purposes, ensuring an ample supply of oxygen cylinders for patients in need.

Apart from the robust industrial sector, the region is also known for its advanced healthcare infrastructure. States like Maharashtra and Gujarat are home to a multitude of hospitals, clinics, and healthcare facilities, providing comprehensive medical services to the local population. The presence of these healthcare institutions has further fueled the demand for oxygen cylinders, as they strive to cater to the healthcare needs of the community. Furthermore, the region is equipped with several oxygen filling stations strategically placed to facilitate a continuous and reliable supply of oxygen cylinders, ensuring that medical facilities have the necessary resources to provide optimal care.

Key Market Players

Rama Cylinders Private Limited

Sahuwala Cylinders Private Limited

Al-Can Exports Private Limited

Sanrai Medical Private Limited

Linde India Private Limited

Vedanta Ltd.

Euro India Cylinders Limited (EICL)

Lizer Cylinders Limited

Everest Kanto Cylinder

BGL Cylinders

Report Scope:

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

India Oxygen Cylinders Market,By Type:

- oPortable

- oInstalled

India Oxygen Cylinders Market,By Sales Channel:

- oWholesalers/Distributors/Suppliers

- oOnline

oDirect Sales

India Oxygen Cylinders Market,By Material Type:

oStainless Steel

oAluminium

oOthers

India Oxygen Cylinders Market,By Source:

oImport

oDomestic

India Oxygen Cylinders Market, By Region:

oNorth India

oEast India

oWest India

oSouth India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Oxygen Cylinders Market.

Available Customizations:

India Oxygen Cylinders 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).

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