

**India Carbon Dioxide (CO2) Market Analysis: Plant Capacity, Production, Operating Efficiency, Demand & Supply, End-User Industries, Sales Channel, Regional Demand, Company Share, Foreign Trade, FY2015-FY2035**

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**Report description:**

The India Carbon Dioxide (CO2) market has reached around 2000 thousand tonnes in FY2022 and is expected to further grow at a CAGR of 4.51% during the forecast period until FY2035.

Carbon Dioxide (CO2) is a gas which is generally produced as a byproduct when hydrogen is synthesized. This gas can also be synthesized by coal gasification, biomass gasification, and electrolytic processes. To increase the shelf life of food articles, modified atmospheric packaging (MAP) frequently uses carbon dioxide. Additionally, for freezing and chilling application, CO2 is used in cryogenic freezing systems, in this sector. Increasing population in India coupled with industrialization and demand for ready-to-eat snacks and meals is anticipated to swell the demand of Carbon Dioxide in the nation. Additionally, for numerous surgical procedures, such as endoscopy and arthroscopy, carbon dioxide gas is generally used as an insufflation agent. With growing healthcare facilities, opening up of new clinics and hospitals, the demand of CO2 for conducting medical procedures is anticipated to further rise in the forecast period till FY2035. The consumption of carbon dioxide is anticipated to increase as a result of niche applications in a variety of industries, such as oil & gas, medicine, rubber, firefighting, agricultural growth enhancement, renewable fuel production, etc. Owing to these factors, the size of the Carbon Dioxide (CO2) market in India and reach a figure of approximately 3500 thousand tonnes by FY2035.

Based on the region, the Carbon Dioxide (CO2) market is segmented into West, South, North, and South. During the historic period of FY2015-FY2021, North India dominated the Carbon Dioxide (CO2) market and accounted share of 35% in FY2022, followed by South and West India. The presence of major food and beverage companies in North India is attributed to this growing demand in North India. Moreover, due to leading hospitals situated in states like Gujarat and Maharashtra, and Rajasthan, a surge

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in the demand of Carbon Dioxide (CO<sub>2</sub>) is expected.

Based on end-use segment, the India Carbon Dioxide (CO<sub>2</sub>) market is bifurcated into Food & Beverages, Healthcare, Chemicals & Petrochemicals, Fire Extinguisher, Welding, and Others. The Food & Beverages sector is dominating the Carbon Dioxide (CO<sub>2</sub>) market in India, with a share of more than 35% in FY2022. The most prominent gas in the food and beverage sector is carbon dioxide. Dry ice is used to keep food products cool during transportation, meanwhile liquid CO<sub>2</sub> add carbonation to soft drinks and helps in food preservation.

Major players in the India Carbon Dioxide (CO<sub>2</sub>) market are Southern Petrochemical Industries Corporation Limited (SPIC), Punjab Carbonic private Limited, Indian Farmers Fertilizer Cooperative, SICAL India Limited, National Fertilizers Limited, Nagarjuna Fertilizers and Chemicals Limited, Bathinda industrial Gases Pvt. Ltd. (BIGPL), Prime Gases, Jubilant Lifesciences limited, Solvay Vishnu Barium Pvt Ltd., and others.

Years considered for this report:

Historical Period: FY2015-FY2022

Base Year: FY2022

Estimated Year: FY2023

Forecast Period: FY2024- FY2035

Objective of the Study:

- To assess the demand-supply scenario of Carbon Dioxide (CO<sub>2</sub>) which covers production, demand and supply of Carbon Dioxide (CO<sub>2</sub>) market in India.
- To analyse and forecast the market size of Carbon Dioxide (CO<sub>2</sub>) in India.
- To classify and forecast India Carbon Dioxide (CO<sub>2</sub>) market based on end-use and regional distribution.
- To examine competitive developments such as expansions, green field projects/ brown field expansions. mergers & acquisitions, etc., of Carbon Dioxide (CO<sub>2</sub>) market in India.

To extract data for India Carbon Dioxide (CO<sub>2</sub>) market, primary research surveys were conducted with Carbon Dioxide (CO<sub>2</sub>) manufacturers, suppliers, distributors, wholesalers and Traders. While interviewing, the respondents were also inquired about their competitors. Through this technique, ChemAnalyst was able to include manufacturers that could not be identified due to the limitations of secondary research. Moreover, ChemAnalyst analyzed various segments and projected a positive outlook for India Carbon Dioxide (CO<sub>2</sub>) market over the coming years.

ChemAnalyst calculated Carbon Dioxide (CO<sub>2</sub>) demand in India by analyzing the historical data and demand forecast which was carried out considering the imports and domestic production coupled with demand from end user industry. ChemAnalyst sourced these values from industry experts and company representatives and externally validated through analyzing historical sales data / import data of Carbon Dioxide (CO<sub>2</sub>) to arrive at the overall market size. Various secondary sources such as company websites, association reports, annual reports, etc., were also studied by ChemAnalyst.

Key Target Audience:

- Carbon Dioxide (CO<sub>2</sub>) manufacturers and other stakeholders
- Organizations, forums and alliances related to Carbon Dioxide (CO<sub>2</sub>) distribution

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-□Government bodies such as regulating authorities and policy makers

-□Market research organizations and consulting companies

The study is useful in providing answers to several critical questions that are important for industry stakeholders such as Carbon Dioxide (CO<sub>2</sub>) manufacturers, customers and policy makers. The study would also help them to target the growing segments over the coming years, thereby aiding the stakeholders in taking investment decisions and facilitating their expansion.

Report Scope:

In this report, India Carbon Dioxide (CO<sub>2</sub>) market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

-□Market, by End-use: Food & Beverages, Healthcare, Chemicals & Petrochemicals, Fire Extinguisher, Welding, and Others

-□Market, by Sales Channel: Direct Sale and Indirect Sale

-□Market, by Region: Northern India, Southern India, Eastern India, Western India

Available Customizations:

With the given market data, ChemAnalyst offers customizations according to a company's specific needs.

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#### 1.□Capacity By Company

On our online platform, you can stay up to date with essential manufacturers and their current and future operation capacity on a practically real-time basis for Carbon Dioxide (CO<sub>2</sub>).

#### 2.□Capacity By Location

To better understand the regional supply of Carbon Dioxide (CO<sub>2</sub>) by analyzing its manufacturers' location-based capacity.

#### 3.□Production By Company

Study the historical annual production of Carbon Dioxide (CO<sub>2</sub>) by the leading players and forecast how it will grow in the coming years.

#### 4.□Demand by End- Use

Discover which end-user industry (Food & Beverages, Healthcare, Chemicals & Petrochemicals, Fire Extinguisher, Welding, and Others) are creating a market and the forecast for the growth of the Carbon Dioxide (CO<sub>2</sub>) market.

#### 5.□Demand by Region

Analyzing the change in demand of Carbon Dioxide (CO<sub>2</sub>) in different regions across India, i.e., Northern India, Southern India, Eastern India, Western India, that can direct you in mapping the regional demand.

#### 6.□Demand by Sales Channel (Direct and Indirect)

Multiple channels are used to sell Carbon Dioxide (CO<sub>2</sub>). Our sales channel will help in analyzing whether distributors and dealers or direct sales make up most of the industry's sales.

#### 7.□Demand-Supply Gap

Determine the supply-demand gap to gain information about the trade surplus or deficiency of Carbon Dioxide (CO<sub>2</sub>).

#### 8.□Company Share

Figure out what proportion of the market share of Carbon Dioxide (CO<sub>2</sub>) is currently held by leading players across India.

#### 9.□Country-wise Export

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Get details about quantity of Carbon Dioxide (CO2) exported by major countries.

#### 10. Country-wise Import

Get details about quantity of Carbon Dioxide (CO2) imported by major countries.

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