

# **India Linear Alpha Olefin Market Analysis: Plant Capacity, Production, Operating Efficiency, Demand & Supply, Type, End-User Industries, Sales Channel, Regional Demand, Foreign Trade, FY2015-FY2035**

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## **Abstracts**

The India Linear Alpha Olefin (LAO) market has hit approximately 250 thousand tonnes in FY2023 and is expected to grow at a steady CAGR of 5.41% by FY2035.

Alpha olefins are olefins or alkenes having the chemical formula  $C_nH_{2n}$ . The regularity of the hydrocarbon chain and the placement of the double bond at the main or alpha position distinguish alpha olefins from other mono-olefins with a similar molecular formula. They are synthesized by the oligomerization of ethylene or the Fischer-Tropsch synthesis, followed by the purification process. There are many kinds of linear alpha olefins including Butene-1, Hexene-1, Octene-1, Decene-1, Dodecene-1, C14-C18, and C20 & Above. The chain length directly influences the chemical property of the olefin. They are used for the production of polyethylene, lubricant, cleansers, plasticizers, petroleum industry chemicals, and specialty chemicals.

The market for Linear Alpha Olefin is primarily driven by its application as a feedstock to manufacture polyethylene. LAOs like 1-butene, 1-hexene, and 1-octene are employed to make polyethylene. Approximately 2-4% of comonomers are used in high-density polyethylene (HDPE) and 8–10% in linear low-density polyethylene (LDPE). In general, polyethylenes have good electrical insulating nature, great chemical and impact resistance, and a low coefficient of friction. Polyethylenes are also lightweight, simple to produce, and have almost no moisture absorption. LDPE is frequently used as a packaging material for ready-to-eat meals, snacks, chips, juices, water bottles, etc. with growing consumer demand for processed food & beverages across the nation, the demand of this plastic is anticipated to rise. Furthermore, HDPE is used for applications

like manufacturing automotive body, which is anticipated to further fuel the demand for polyethylene, thus LAO as a feedstock in the forecast period.

Polyalphaolefin (PAO), one of the derivatives of LAO is a popular synthetic base oil that finds its application in industrial and automotive lubricants, which further fuels the LAO market expansion. The Linear Alpha Olefin market volume is estimated to reach approximately 470 thousand tonnes by FY2035.

Based on type, the India Linear Alpha Olefin market is segregated into Butene-1, Hexene-1, Octene-1, Decene-1, Dodecene-1, Tetradecene-1, C14-C18, and Others. Among these, Butene-1 is the leading type and possess properties like high tensile strength. The manufacturing of high-quality polymers like polyethylene and polypropylene mostly uses butene-1 which are further employed as packaging supplies like films, bags, and food packaging.

Based on the region, the India Linear Alpha Olefin market is segregated into the West, South, North, and East. As of FY2023, West India has been leading the market, followed closely by North India. States like Gujarat. Rajasthan Maharashtra has been the key consumer of Linear Alpha Olefin due to the presence of leading plasticizer industries located in these states. Although, it is anticipated that in the forthcoming years, North India is anticipated to experience a surge in demand. Recently, a new 1-butene plant by HPCL-Mittal Energy Limited (HMEL) situated at Bhatinda, Punjab, began its operation to cater to the growing demand for Linear Alpha Olefin across the nation. Additionally, some amount of demand is met via imports by different countries with Saudi Arabia being the key exporter.

Based on end-use, the India Linear Alpha Olefin market is segregated into Polyethylene, Polyalphaolefins, Oxo alcohols, and Others. Among these, the Polyethylene industry is dominating the LAO market. In FY2023, displayed a consumption of nearly 75% of the market. Being a versatile polymer, polyethylene is widely used for applications like coating wires & cables, food packaging, flexible packaging, sealants, toys, and mixing with other polymers. With the growing population, a surge in the demand for this polymer is expected.

Major players in the India Linear Alpha Olefin market are Reliance Industries Limited, GAIL (India) Limited, Indian Oil Corporation Limited, Haldia Petrochemicals Limited, HPCL- Mittal Energy Limited. Major players in the production of Global Linear Alpha Olefin (LAO) are Shell Chemical Company, INEOS, Chevron Phillips Chemical Company LP, Sasol Limited, Qatar Chemical Company Ltd., Sinochem Quanzhou Petrochemical, Evonik Industries, Arabian Petrochemical Company (PETROKEMYA),

Dow Chemical, Nizhnekamskneftekhim, Baltic Chemical Plant LLC (BCP) - JSC  
RusGazDobycha, Sinopec Company, Saudi Basic Industries Corp., and Yanbu National  
Petrochemicals Cmpny SJSC.

Years considered for this report:

Historical Period: FY2015-FY2023

Base Year: FY2023

Estimated Year: FY2024

Forecast Period: FY2025- FY2035

Objective of the Study:

To assess the demand-supply scenario of Linear  
Alpha Olefin which covers production, demand  
and supply of Linear Alpha Olefin market in India.

To analyse and forecast the market size of Linear Alpha Olefin in  
India.

To classify and forecast India Linear Alpha Olefin 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 Linear Alpha Olefin market in India.

To extract data for India Linear Alpha Olefin market, primary research surveys were  
conducted with Linear Alpha Olefin 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  
Linear Alpha Olefin market over the coming years.

ChemAnalyst calculated Linear Alpha Olefin 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 Linear Alpha Olefin 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:

Linear Alpha Olefin manufacturers and other stakeholders

Organizations, forums and alliances related to Linear Alpha Olefin distribution

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 Linear Alpha Olefin 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 Linear Alpha Olefin market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Market, by Type: Butene-1, Hexene-1, Octene-1, Decene-1, Dodecene-1, Tetradecene-1, C14-C18, and Others

Market, by End-use: Polyethylene, Polyalphaolefins, Oxo alcohols, and Others

Market, by Sales Channel: Direct Sale and Indirect Sale

Market, by Region: North India, South India, East India, West India

Available Customizations:

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

## Contents

### 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 Linear Alpha Olefin.

### 2. CAPACITY BY LOCATION

To better understand the regional supply of Linear Alpha Olefin by analyzing its manufacturers' location-based capacity.

### 3. PLANT OPERATING EFFICIENCY

To determine what percentage manufacturers are operating their plants or how much capacity is being currently used.

### 4. PRODUCTION BY COMPANY

Study the historical annual production of Linear Alpha Olefin by the leading players and forecast how it will grow in the coming years.

### 5. DEMAND BY TYPE

Learn about the various types: Butene-1, Hexene-1, Octene-1, Decene-1, Dodecene-1, Tetradecene-1, C14-C18, and Others, and their demands. It will allow you to choose which type to concentrate on when designing your strategy.

### 6. DEMAND BY END- USE

Discover which end-user industry (Polyethylene, Polyalphaolefins, Oxo alcohols, and Others) are creating a market and the forecast for the growth of the Linear Alpha Olefin market.

### 7. DEMAND BY REGION

Analyzing the change in demand of Linear Alpha Olefin in different regions across India, i.e., North India, South India, East India, West India, that can direct you in mapping the

regional demand.

## **8. DEMAND BY SALES CHANNEL (DIRECT AND INDIRECT)**

Multiple channels are used to sell Linear Alpha Olefin. Our sales channel will help in analyzing whether distributors and dealers or direct sales make up most of the industry's sales.

## **9. DEMAND-SUPPLY GAP**

Determine the supply-demand gap to gain information about the trade surplus or deficiency of Linear Alpha Olefin.

## **10. COUNTRY-WISE IMPORT**

Get details about quantity of Linear Alpha Olefin imported by major countries.

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