

# India Nano Urea Market Analysis: Plant Capacity, Production, Operating Efficiency, Demand & Supply, End-User Industries, Sales Channel, FY2015-FY2032

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## Abstracts

The India Nano Urea market has reached around 14 million litres in FY2022 and is expected to hike at an impressive CAGR of 29.34% during the forecast period until FY2032. As of FY2022, India Farmers Fertiliser Cooperative Limited (IFFCO) is the only producer of Nano Urea. Furthermore, IFFCO is also coming up with greenfield and brownfield expansion plans across the country which will make IFFCO the largest producer of nano urea in India.

IFFCO's plant is located at Kalol, Gujarat. This plant holds an annual capacity of around 27 million litres. IFFCO is coming up with brownfield expansion in this plant which will push its annual capacity to reach 63 million litres by FY2032. Furthermore, IFFCO is also coming with two greenfield expansion projects located at Aonla and Phulpur, Uttar Pradesh with cumulative annual capacity of 63 million litres by FY2025.

Nano urea is the advanced version of urea which contains urea particles in the range of 20 and 50 nm, which results in higher surface area. Its surface area is roughly 10,000 times over 1 mm urea capsule. Due to small particle size, the nitrogen atoms penetrate better and fulfill the nutritional requirements of the plant. Moreover, nano urea uses green and sustainable technology for its production. In a plant, all organic molecules such as photosynthetic pigments, enzymes, and energy transfer agents are primarily composed of nitrogen. Furthermore, 500 ml of nano urea can replace at least 45 kg bag of urea. Nano Urea is sprayed onto leaves, where it is easily absorbed by plant cells after passing via stomata and other openings. From the source to the sink, it is simply transferred through the phloem, in the plant. Nano Urea is employed to increase crop yield and improve the soil quality.

The market drivers of Nano Urea include its ability to increase the fertility of the soil and in turn enhancing the yield of the crops. Furthermore, it reduces the efforts of carrying bulky urea bag with just bottle of urea, thus reducing the manpower. Nano urea is a viable and environmentally friendly alternative to bulk nitrogen fertilizers like urea. Moreover, with the increasing urbanization in India, the cultivation land is decreasing but the demand for crops is rising, which is anticipated to create a huge market for fertilizers in the forecast period till FY2032. The demand of nano urea is estimated to reach approximately 150 million liters till FY2032.

Currently, there is only one producer of nano urea in India, IFFCO, with its plant situated at Kalol, Gujarat. Furthermore, to fulfil the rising need of nano urea on domestic scale, National Fertilizers Limited (NFL) and Rashtriya Chemicals and Fertilisers (RCF) Limited are coming up with new nano urea manufacturing plants in India. Recently, IFFCO signed a MoU with NFL and RCF under which IFFCO will shares its technology of nano urea to both these organization. These new plants are anticipated to fulfil the nano urea on a domestic level. NFL plant is expected to be commissioned by FY2025 with an annual capacity of 27 million liters with location at Bhatinda, Punjab. Moreover, RCF plant is also expected to be commissioned by FY2025 with an annual capacity of 27 million liters with location at Trombay, Maharashtra.

Based on the end-use industry, the India Nano Urea market is segmented into Food Crops, Cash Crops, Horticulture Crops, and others. Food Crops are dominating the Nano Urea market and accounted a market share of approximately 50% in FY2022. The food crops include rice, corn, strawberries, and blueberries. Owing to growing population in India, an expansion in the food and agro-based industries is bound to expand, creating a demand of fertilizers which will most likely result in expansion of Nano Urea in India.

Years considered for this report:

Historical Period: FY2015-FY2021

Base Year: FY2022

Estimated Year: FY2023

Forecast Period: FY2024- FY2032

## Objective of the Study:

To assess the demand-supply scenario of Nano Urea which covers production, demand and supply of Nano Urea market in India.

To analyse and forecast the market size of Nano Urea in India.

To classify and forecast India Nano Urea 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 Nano Urea market in India.

To extract data for India Nano Urea market, primary research surveys were conducted with Nano Urea 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 Nano Urea market over the coming years.

ChemAnalyst calculated Nano Urea demand in India by analyzing the historical data and demand forecast which was carried out considering the 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 of Nano Urea 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:

Nano Urea manufacturers and other stakeholders

Organizations, forums and alliances related to  
Nano Urea 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 Nano Urea 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 Nano Urea market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Market, by End-use: Food Crops, Cash Crops, Horticulture Crops, 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.

## 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 Nano Urea.

### **2. CAPACITY BY LOCATION**

To better understand the regional supply of Nano Urea by analyzing its manufacturers' location-based capacity.

### **3. PRODUCTION BY COMPANY**

Study the historical annual production of Nano Urea 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 Crops, Cash Crops, Horticulture Crops, and others) are creating a market and the forecast for the growth of the Nano Urea market.

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

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

### **6. DEMAND-SUPPLY GAP**

Determine the supply-demand gap to gain information about the trade surplus or deficiency of Nano Urea.

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