

What is Nano Urea?

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About Nano Urea:

- It is a **nanotechnology-based** revolutionary **agri-input that provides nitrogen to plants**.
 - It is **developed and patented by** the **Indian Farmers Fertiliser Cooperative Limited (IFFCO)**.
 - IFFCO Nano Urea is the **only nano fertilizer approved by** the **Government of India and included in the Fertilizer Control Order (FCO)**.
 - **Features:**
 - Compared to conventional urea prill, Nano Urea has a **desirable particle size** of about 20-50 nm, and **more surface area** (10,000 times over 1 mm urea prill), and **number of particles** (55,000 nitrogen particles over 1 mm urea prill).
 - It contains **4.0 % total nitrogen (w/v)**.
 - **Benefits:**
 - It is produced by an **energy-efficient, environment-friendly production process** with less carbon footprints.
 - It is more **efficient in terms of nutrient uptake** and **releases nitrogen more slowly**.
 - It **reduces the amount of nitrogen lost to the atmosphere** as greenhouse gases.
 - It is expected to improve crop productivity, soil health, and nutritional quality of produce and address the “imbalanced and excessive use” of conventional fertilizer.
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Q1: What is Indian Farmers Fertiliser Cooperative Limited (IFFCO)?

IFFCO is India's largest multi-state cooperative society that is entirely owned by Indian cooperatives and its headquarter is based in New Delhi, India. It was founded in 1967 with 57 members and has now become one of the biggest co-op and the largest fertiliser manufacturer in the country.

News: [National Fertilizers Ltd to foray into nano liquid urea production](#)

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