



**KAMARAJ IAS ACADEMY**  
Only IAS Academy by Grandson of "Perunthalaivar Kamarajar"

# Nano Urea

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**Why is in news?** Trials were conducted at 20 selected locations in selected crops to study the effect of IFFCO nano-urea (liquid)

Indian Council of Agricultural Research (ICAR) has informed that trials were conducted at 20 selected locations in selected crops to study the effect of **IFFCO nano-urea (liquid)** used as foliar spray

The study indicated that nano-urea can be used as foliar spray for top-dressing instead of conventional urea

Accordingly, Department of Agriculture & Farmers Welfare (DA&FW) has provisionally notified Nano Urea as **Nano Nitrogen Fertilizers in Fertilizer Control Order, 1985**.

Further, Indian Council of Agricultural Research (ICAR) has informed that **IFFCO and CIL have developed nano DAP** and have conducted preliminary field trials on selected crops in selected ICAR Institutes/SAU's.

## About the Nano Urea:

?????: ????? ?? IFFCO Nano Urea is a nanotechnology based revolutionary Agri-input which **provides nitrogen to plants**.

Nano Urea is a sustainable option for farmers **towards smart agriculture** and combat climate change.

These fulfil the plant nutrient requirement as a fertilizer since Nano urea is bio available to plants because of its desirable particle size 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).

Hence, Nano Urea increases its availability to crop by **more than 80% resulting in higher Nutrient Use efficiency**.

In addition to this, Nano urea helps in **minimizing the environmental footprint** by reducing the loss of nutrients from agriculture fields in the form of leaching and gaseous emissions which used to cause environmental pollution and climate change.

## Benefits of Nano Urea:

Higher crop yield

Increased income for farmers

Better food quality

Reduction in chemical fertilizer usage

Environment friendly

Easy to store and transport

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