

GOVERNMENT OF INDIA  
MINISTRY OF CHEMICALS AND FERTILIZERS  
DEPARTMENT OF FERTILIZERS

**RAJYA SABHA**

**UNSTARRED QUESTION NO. 1791 TO BE ANSWERED ON: 19.12.2023**

**Utility of nano urea for farmers**

**1791: SHRI HARNATH SINGH YADAV:**

Will the Minister of **CHEMICALS AND FERTILIZERS** be pleased to state:

- (a) whether the use of nano urea liquid fertilizer would lead to a reduction in farmers' agricultural costs and an increase in yields, if so, the details thereof;
- (b) whether the nano urea liquid fertilizer would enhance the soil fertility of fields, if so, the details thereof; and
- (c) whether Government has devised any action plan to secure the timely availability of nano urea to common farmers, if so, the details thereof?

**ANSWER**

MINISTER OF STATE FOR CHEMICALS & FERTILIZERS

**(SHRI BHAGWANTH KHUBA)**

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(a) & (b): Based on the bio-efficacy trials at multiple locations by Indian Council of Agricultural Research (ICAR) institutions and State Agricultural Universities (SAUs) and bio-safety test results, Department of Agriculture & Farmers Welfare (DA&FW) had provisionally notified Nano Urea as Nano Nitrogen Fertilizers in Fertilizer Control Order, 1985. These experimental trials were conducted of Nano urea on different crops such as paddy, Wheat, Mustard, Maize, Tomato, Cabbage, Cucumber, Capsicum and Onion in different agro-climatic zones. The study indicated that two spray of nano urea as top-dressing alongwith recommended basal dose of nitrogen gave comparable yield to that obtained with full recommended dose of nitrogen with yield advantage of 3-8% and urea saving of 25-50% in various crops. Price of IFFCO Nano Urea (liquid) is Rs 225 / 500 ml bottle, which is 16 % less than the price of a 45 Kg bag of conventional Urea. Further, Nano Urea developed by M/s Ray Nano Science & Research Centre and M/s Zuari Farm Hub Limited have also been included in Fertilizer Control Order (FCO)-1985.

(c): Nano Urea is being made available at Pradhan Mantri Kisan Samridhi Kendras (PMKSKs) by concerned companies. Further, it has been included under monthly supply plan issued by Department of Fertilizers regularly. Nano Urea is made available for sale through various platforms & marketing channel so as to increase overall reach of Nano fertilizers for the farmers.

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