

GOVERNMENT OF INDIA  
MINISTRY OF CHEMICALS AND FERTILIZERS  
DEPARTMENT OF FERTILIZERS

**RAJYA SABHA**

**UNSTARRED QUESTION NO. 1933 TO BE ANSWERED ON: 18.03.2025**

**Efficiency of Nano Urea**

**1933: DR. V. SIVADASAN:**

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

- (a) whether Government has conducted any study regarding the efficiency of Nano Urea;
- (b) whether Nano Urea has been made available to the farmers of the country; and
- (c) the amount of Nano Urea consumed in the country?

**ANSWER**

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS & FERTILIZERS  
**(SMT. ANUPRIYA PATEL)**

- (a):
  - (i) 20 Research Institutes of Indian Council of Agriculture Research (ICAR), 30 Kisan Vikas Kendras (KVKs) and 25 State Agricultural Universities have carried out nano urea (liquid) trials on different crops (> 20 crops) such as Paddy, Wheat, Maize, Sorghum, Finger millet, Bajra, Groundnut, Mustard Pulse, Fodder, Cotton, Tomato, Chilly, Cabbage, Cucumber, Capsicum, Onion, Zinger, Turmeric, Cassava and Elephant foot yam covering 15 agro-climatic zones. Impact of nano urea varies with the crops. On an average it saved upto 8-12 % fertilizer nitrogen along with recommended package of practices.
  - (ii) The project "Effect of Nano Urea and DAP and popularization of its use in crop production," is being undertaken at ICAR from 2024 to 2026, to evaluate the impact of Nano Urea and DAP on crop growth, soil health, and nutrient uptake across various agro-ecological zones in India.
  - (iii) An MoU was signed between National Productivity Council (NPC) of India and Department of Fertilizers on 5th March, 2024 to undertake the study of Nano Urea on "Evaluating Efficacy, Utility and Impact of Nano Urea in comparison to Conventional Urea.
- (b): Yes, Nano Urea has been made available to the farmers of the country.
- (c): Since the initial notification on 24th February 2021, a total of 1224.36 lakh bottles (of 500ml each) Nano Urea have been produced, out of which 993.61 lakh bottles have been sold in the country, till 28<sup>th</sup> February 2025.

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