

GOVERNMENT OF INDIA
MINISTRY OF CHEMICALS AND FERTILIZERS
DEPARTMENT OF FERTILIZERS

LOK SABHA

UNSTARRED QUESTION NO. 4227 TO BE ANSWERED ON: 20.12.2024

Nano Urea

4227: SHRI MURASOLI S:

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

- (a) the details of the steps taken to promote Nano Urea;
- (b) whether scientific studies have been undertaken for the efficacy of Nano urea, if so, the details thereof;
- (c) whether Nano urea is safe for crops, if so, the details thereof; and
- (d) the details of the side effects of Nano urea?

ANSWER

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

(a): In order to promote the use of "Nano Urea" amongst the farmers, the following steps have been taken :-

- i. Use of Nano Urea is promoted through different activities such as awareness camps, webinars, nukkad natak, field demonstrations, Kisan Sammelans and films in regional languages etc.
- ii. Nano Urea is made available at Pradhan Mantri Kisan Samridhi Kendras (PMKSKs) by concerned companies.
- iii. Nano Urea has been included under monthly supply plan issued by Department of Fertilizers regularly.
- iv. ICAR through Indian Institute of Soil Science, Bhopal recently organized National Campaign on "Efficient and Balanced Use of Fertilizer (including Nano-fertilizers)".
- v. Promotion of use of nano fertilizers was done during the Viksit Bharat Sankalp Yatra (VBSY) which was launched on 15th November, 2023.
- vi. With an aim to provide drones to 15,000 women Self Help Groups (SHGs), the Government of India has launched the 'Nano Drone Didi' Scheme. Under the said scheme, 1094 drones have been made available by fertilizer companies to Nano Drone Didis of Women Self Help Groups, which is ensuring increased application of nano fertilizers through drones.

- vii. DoF in collaboration with fertilizer companies has initiated a Maha Abhiyan for adoption of Nano DAP in all 15 agro-climatic zones of the country through consultations and field level demonstrations. Further, DoF in collaboration with fertilizer companies has also launched campaign for field level demonstrations and awareness programs of Nano Urea plus in 100 districts of the country.

(b) to (d): 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.
