

GOVERNMENT OF INDIA
MINISTRY OF CHEMICALS AND FERTILIZERS
DEPARTMENT OF FERTILIZERS

RAJYA SABHA

UNSTARRED QUESTION NO. 829 TO BE ANSWERED ON: 11.02.2025

Action plan for nano fertilizer production

829: SHRI G. C. CHANDRASHEKHAR:

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

- (a) whether Government has taken note that nano fertilizer is not advantageous for the farmers economically and environmentally in the country, if so, the details thereof;
- (b) whether Government has any time bound action plan with regard to production of nano fertilizer in the country; and
- (c) if so, the details thereof?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS & FERTILIZERS

(SMT. ANUPRIYA PATEL)

(a): 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.

(b) & (c): The Government of India is not directly involved in setting up of Nano Urea Plants. Overall 7 Nano Urea plants have been setup by PSUs and other Fertilizer Companies. The total production capacity of all these Nano Urea plants presently in operation is **27.22 crore bottles (500 ml each) per annum**. Furthermore, PSUs and other Fertilizer Companies have intimated about setting up of 5 more Nano Urea Plants, with total production capacity of **27 Crore bottles (500 ml equivalent) per annum**.
