

GOVERNMENT OF INDIA  
MINISTRY OF CHEMICALS AND FERTILIZERS  
DEPARTMENT OF FERTILIZERS  
**RAJYA SABHA**

**UNSTARRED QUESTION NO. 2120 TO BE ANSWERED ON: 06.08.2021**

**Production of nano urea**

**2120. SHRI. JOHN BRITTAS:**

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

- (a) the role of Nano urea in sustainable agriculture;
- (b) whether Government plans to set up Nano Urea Liquid production units/manufacturing plants in the country;
- (c) if so, the details thereof;
- (d) whether Government plans to promote exports of Nano Urea; and
- (e) if so, the details thereof?

**ANSWER**

MINISTER OF HEALTH & FAMILY WELFARE AND CHEMICALS & FERTILIZERS  
( **SHRI MANSUKH MANDAVIYA** )

(a) : The Nano-fertilizer hold great promise for application in plant nourishment because of the size-dependent qualities, high surface-volume ratio, and unique properties. Nano-fertilizers releases plant nutrients in a controlled manner contributing to higher nutrient use efficiency.

Experimental trials of Nano Nitrogen (Nano urea developed by IFFCO) undertaken during Rabi/Zaid 2019-20 through National Agriculture Research System (NARS) at 7 ICAR research institute/state agricultural Universities on different crops like Paddy, Wheat, Mustard, Maize, Tomato, Cabbage, Cucumber,

Capsicum, Onion etc. were found agronomically suitable indicating that nano nitrogen (Nano Urea) can enhance farmer's crop yields beside nitrogen saving to the extent of 50% .

(b) & (c): National Fertilizers Limited (NFL) and Rashtriya Chemicals and Fertilizers Ltd (RCF) PSUs of DoF signed a Memorandum of Understanding (MoU) with Indian Farmers Fertilizers Cooperative Ltd. (IFFCO) for the technology transfer for production of Nano Urea.

(d) & (e): IFFCO has sought permission from the Department of Fertilizers for export of Nano Urea(liquid) manufactured from its Nano Fertilizer Plant facility set up at Kalol, Gujarat.

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