

GOVERNMENT OF INDIA  
MINISTRY OF AGRICULTURE AND FARMERS WELFARE  
DEPARTMENT OF AGRICULTURAL RESEARCH & EDUCATION

**LOK SABHA**  
**UNSTARRED QUESTION NO. 1109**  
TO BE ANSWERED ON 13<sup>TH</sup> DECEMBER, 2022

**INDEPENDENT ASSESSMENT BY ICAR**

1109. SHRI GAURAV GOGOI:

Will the Minister of AGRICULTURE AND FARMERS WELFARE  
कृषि और किसान कल्याण मंत्री be pleased to state:

- (a) the number of climatic seasons for which the independent assessment was conducted by the Indian Council of Agricultural Research (ICAR) on the Nano-urea, developed by the Indian Farmers Fertiliser Cooperative Limited (IFFCO);
- (b) whether nano-urea will cut farmers' dependence on urea and if so, the details thereof;
- (c) the details regarding evidence for the effectiveness of nano-urea; and
- (d) whether the normal packaged urea is necessary at the initial stage of crop development, despite the use of nano-urea and if so, the details thereof?

**ANSWER**

THE MINISTER OF AGRICULTURE AND FARMERS WELFARE  
कृषि और किसान कल्याण मंत्री (SHRI NARENDRA SINGH TOMAR)

**(a)** In two climatic seasons (*rabi* and *kharif*), ICAR conducted agronomic assessment of nano urea developed by IFFCO in collaboration with IFFCO.

**(b) & (c):** Yes. Nano-urea may cut farmers' dependence on urea through savings on top dressed fertilizer nitrogen. Two spray of nano-urea as top dressing alongwith recommended basal dose of nitrogen gave comparable yield to that obtained with total recommended dose of nitrogen with yield advantage of 3-8% and urea saving of 25-50% in various crops.

**(d):** Yes. Normal packaged urea is necessary at the initial stage of crop development as basal dose, despite the use of nano-urea which is sprayed on standing crops as top dressing.

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