

GOVERNMENT OF INDIA
MINISTRY OF CHEMICALS AND FERTILIZERS
DEPARTMENT OF FERTILIZERS

RAJYA SABHA

UNSTARRED QUESTION NO. 176 TO BE ANSWERED ON: 04.02.2025

Expansion of nano DAP application

176: SHRI K.R. SURESH REDDY:

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

- (a) whether Government has assessed the current status of nano DAP (Diammonium Phosphate) usage across various crops and agro-climatic zones, if so, the details thereof; and
- (b) whether any field trials or studies have been conducted to evaluate the efficacy and safety of Nano DAP, if so, the outcomes of such studies?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS AND FERTILIZERS

(SMT. ANUPRIYA PATEL)

(a): The Government of India has notified Nano DAP under the Fertilizer Control Order (FCO) – 1985 on the basis of the bio efficacy trials and toxicology tests. M/s Coromandel International Limited (CIL), M/s Zuari Farm Hub Limited and M/s Indian Farmers Fertiliser Cooperative Limited (IFFCO) have been granted permission to manufacture Nano DAP. Furthermore, 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. These demonstrations have been held for different crops like paddy, maize groundnut, cotton, apple, vegetables etc.

(b): Preliminary field trials using nano DAP were conducted on selected crops in selected ICAR Institutes. It was used for seed treatment and 2 foliar applications. The study indicated the possibility of using nano DAP as foliar spray instead of conventional Urea / DAP used for top dressing (33% of recommended dose) without significant yield penalty.
