

GOVERNMENT OF INDIA  
MINISTRY OF CHEMICALS AND FERTILIZERS  
DEPARTMENT OF FERTILIZERS

**LOK SABHA**

**UNSTARRED QUESTION NO. 1985 TO BE ANSWERED ON: 06.12.2024**

**Production Capacity of Nano DAP Fertilizer**

**1985 SHRI APPALANAIDU KALISSETTI:**

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

- (a) whether the Government has introduced Nano DAP as a new fertilizer in India, and if so, the details of its composition, benefits, and effectiveness compared to conventional DAP (Di-Ammonium Phosphate);
- (b) the current production capacity of Nano DAP and its availability in the market;
- (c) the details regarding distribution and sales of Nano DAP across the country, particularly in Andhra Pradesh during the last year;
- (d) the steps taken by the Ministry to promote awareness among farmers regarding the usage of Nano DAP;
- (e) the reported impact of Nano DAP on crop yield, cost of production and environmental sustainability; and
- (f) whether any challenges are being taken in the large-scale production and distribution of Nano DAP and the measures being taken to overcome these challenges?

**ANSWER**

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS & FERTILIZERS

**(SMT. ANUPRIYA PATEL)**

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(a) to (f): 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.

Indian Council of Agricultural Research (ICAR) has informed that IFFCO and CIL have developed Nano DAP and have conducted preliminary field trials on selected crops in selected ICAR Institutes/State Agriculture Universities. The report indicated that with the use of Nano DAP as seed treatment and foliar application, there is a possibility of saving of granular DAP conventionally applied.

The current production capacity along with the actual production and sales of Nano DAP is as below:

(In lakh Bottles of 500ml equivalent)

S. No.	Company Name	Production Capacity	Actual Production	Sales
1.	IFFCO, Kalol Plant	600	177.06	111.98
2.	Zuari Farm Hub Ltd Bhatinda (PPL)	24	11.72	9.02
3.	CIL Kakinada	140	73.66	60.25
<b>Total</b>		<b>764</b>	<b>262.44</b>	<b>181.25</b>

In addition to this, the State-wise Sales data of Nano DAP across the country is placed at **Annexure**.

Furthermore, in order to promote the use of Nano Fertilizers 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 'Namo Drone Didi' Scheme. Under the said scheme, 1094 drones have been made available by fertilizer companies to Namo 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.

According to information provided by the fertilizer companies, there are no significant challenges in the manufacturing and logistics of Nano DAP.

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**Annexure**

**Annexure referred to in reply to part (a) to (f) of Lok Sabha unstarred question  
No. 1985 for answering on 06.12.2024  
(In lakh Bottles of 500ml equivalent)**

<b>S.No.</b>	<b>State/UTs</b>	<b>Sales of Nano DAP</b>
1	Andhra Pradesh	10.57
2	Assam & NE	1.42
3	Bihar	5.31
4	Chhattisgarh	2.46
5	Gujarat	9.13
6	Haryana & Delhi	2.35
7	Himachal Pradesh	0.83
8	Jammu and Kashmir	0.73
9	Jharkhand	0.71
10	Karnataka	13.17
11	Kerala	0.33
12	Madhya Pradesh	18.75
13	Maharashtra & Goa	35.39
14	Odisha	3.58
15	Puducherry	0.48
16	Punjab	6.88
17	Rajasthan	12.89
18	Tamil Nadu	4.05
19	Telangana	7.08
20	Uttar Pradesh	31.48
21	Uttarakhand	1.20
22	West Bengal	12.45
<b>Total</b>		<b>181.25</b>

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