

GOVERNMENT OF INDIA
MINISTRY OF CHEMICALS AND FERTILIZERS
DEPARTMENT OF FERTILIZERS

RAJYA SABHA

UNSTARRED QUESTION NO. 1143 TO BE ANSWERED ON: 10.02.2026

Availability of nano-fertilizers in Andhra Pradesh

1143 Shri Sana Sathish Babu:

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

- (a) the status of rollout and availability of nano-fertilizers, including nano urea and nano DAP, in Andhra Pradesh during 2023–24, 2024–25 and 2025–26, season-wise;
- (b) the quantity of nano-fertilizers allocated and supplied to Andhra Pradesh during the last three years, year-wise and the distribution mechanism adopted for delivery to farmers;
- (c) the measures taken to promote proper and efficient use of nano-fertilizers, including farmer training and field demonstrations; and
- (d) whether any assessment has been undertaken to review adoption levels and outcomes in the State?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS AND FERTILIZERS
(SMT. ANUPRIYA PATEL)

(a) Seasons wise sale of Nano Urea and Nano DAP in Andhra Pradesh are as under:-

(Lakh bottles - Each Bottle-500ml)

Year	Nano Urea			Nano DAP		
	Kharif season	Rabi season	Total	Kharif season	Rabi season	Total
2023-24	1.69	1.55	3.24	0.40	1.17	1.57
2024-25	1.27	1.74	3.01	3.40	2.10	5.50
2025-26(Till 31.01.2026)	3.80	2.67	6.42	5.06	3.12	8.19

(b) The quantity of nano-fertilizers allocated and supplied to Andhra Pradesh during the last three years are as under:-

(Lakh bottles - Each Bottle-500ml)

S. No	Year	Allocation		Supply	
		Nano Urea	Nano DAP	Nano Urea	Nano DAP
1	2023-24 (Kharif)	4	0	1.69	0
	2023-24 (Rabi)	6.5	0.94	1.52	0
2	2024-25 (Kharif)	5	5.32	0.99	5.36
	2024-25 (Rabi)	8.68	8.5	1.5	0.52
3	2025-26 (Kharif)	6	5	2.99	6.33
	2025-26 (Rabi)	4.5	2	2.26	0.75
Total		34.68	21.76	10.95	12.96

Nano Fertilizers manufactures informed that Nano-fertilizers are supplied/distributed in Andhra Pradesh through an established distribution network comprising cooperative institutions, private retailers, and company-operated outlets. All nano-fertilizer manufacturers also distribute their products through cooperative societies (including MARKFED), private fertilizer retailers, and IFFCO Bazar retail outlets across the State. In addition, nano-fertilizers are supplied through the Government of Andhra Pradesh's designated nodal agency, AP MARKFED, and are made available to farmers at the village level through the Department of Agriculture's Rythu Seva Kendras (RSKs). During FY 2025–26, a total of 1,189 channel partners have been engaged in the delivery of nano-fertilizers to farmers in Andhra Pradesh. Further, manufacturers are actively working with the farming community through company-operated retail outlets, including Mana Gromor Centers. During the current financial year, 460 such retail centers have been involved in the distribution of nano-fertilizers in the State. Nano fertilizers manufacturers maintain a well-established distribution system to ensure timely and convenient availability of nano-fertilizers to farmers through nearby fertilizer outlets.

(c) To promote the proper and efficient use of nano-fertilizers in Andhra Pradesh, a comprehensive set of awareness, training, and demonstration activities has been undertaken by the State Government and nano-fertilizer manufacturers during FY 2023–24 to FY 2025–26 (till 31.01.2026).

During 2025–26, the Government of Andhra Pradesh have organized 268 demonstration plots to test and showcase the effectiveness of Nano Urea and Nano DAP. The results from these plots will be analyzed after the completion of the crop harvest to assess their impact on yield and fertilizer efficiency.

Nano-fertilizer manufacturers have organized large-scale farmers' meetings, including PM-PRANAM Kisan Goshthis and Kisan Sangoshthis (crop seminars), along with Nano DAP seed treatment demonstrations, agro-climatic zone-wise trials, and seasonal field demonstrations across villages. These programmes involve scientists and crop experts from KVKs and ANGRAU to guide farmers on nutrient use efficiency and the proper application of Nano DAP and Nano Urea. Also conducted capacity-building initiatives such as retailer and channel partner training programmes, farmer field and Government seed demonstrations in coordination with Municipal Agriculture Officers/Assistant Directors of Agriculture/ District Agriculture Officers and KVK scientists, field days, participation in exhibitions, Kisan Melas, and Viksit Bharat Sankalp Yatra campaigns. Nano-fertilizer manufacturers have also strengthened outreach and awareness efforts through village-level publicity using mobile vans, wall paintings, hoardings, display stalls, distribution of subsidized manual sprayers, TV campaigns, digital promotions on social media platforms, and dissemination of literature in the local language to encourage the partial replacement of conventional fertilizers with nano-fertilizers.

(d) Nano fertilizers Manufactures like IFFCO and CIL have informed that adoption levels and outcomes have been qualitatively assessed through farmer interactions and the collection of farmer testimonials across the state. Feedback from users has been positive, with farmers reporting satisfaction with product performance and willingness to continue and repeat usage.

National Productivity Council (NPC) of India has undertaken a study of Nano Urea on "Evaluating Efficacy, Utility and Impact of Nano Urea in comparison to Conventional Urea" in 10 States including Andhra Pradesh.
