

GOVERNMENT OF INDIA
MINISTRY OF CHEMICALS AND FERTILIZERS
DEPARTMENT OF FERTILIZERS

RAJYA SABHA

UNSTARRED QUESTION NO. 1779 TO BE ANSWERED ON: 04.08.2026

Self-reliance in the nano fertilizer sector

1779 # Shri Pradip Kumar Varma:

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

- (a) whether Government is promoting nano-fertilizers with the aim of enhancing fertilizer use efficiency and reducing dependence on imports;
- (b) if so, the details regarding the nano-fertilizer production capacity established and the actual production in the country so far;
- (c) whether special programmes are being implemented by Government to encourage the use of nano-fertilizers among farmers; and
- (d) if so, the details thereof?

ANSWER

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

(a) to (d) In order to promote the use of Nano Fertilizers among farmers across the country, the following measures have been undertaken by the Government:

- Use of Nano Fertilizers is promoted through different activities such as awareness camps, webinars, field demonstrations, Kisan Sammelans and films in regional languages etc.
- Nano Fertilizers, like Nano Urea and Nano DAP, are made available at Pradhan Mantri Kisan Samridhi Kendras (PMKSKs) by concerned companies.
- For ease in application and utilization of Nano fertilizers, like Nano Urea and Nano DAP, through foliar application, initiatives such as innovative spraying options like 'Kisan Drones' and distribution of battery operated sprayers at retail points are undertaken. For this purpose, pilot training and custom hiring spraying services through Village Level Entrepreneurs are actively promoted.

Measures undertaken by the State Governments:

- Government of Gujarat provides a 50% subsidy on Nano Fertilizers to farmers under a special support initiative to encourage adoption of these advanced fertilizers.
- Government of Rajasthan provides a subsidy of 50% on spraying cost for spraying Nano Fertilizers.
- Government of Uttarakhand has mandated the use of Nano fertilizers in demonstrations under central sponsored schemes (ATMA, NFSM, and Soil Health & Fertility) and state sponsored schemes (Chief Minister's State Development Scheme and the State Millet Policy).

- Government of Odisha is providing a financial assistance for the use of Nano Fertilizers under the following State Government schemes:

SI No	Scheme	Area (in Ha)	Nano fertilizer	Incentives (Rs /ha)
1	NFSNM(Food grain) 2026-27	4126	Nano Urea	500
		2093	Nano DAP	1000
2	Mission for Aatmanirbharta in Pulses 2026-27	15625	Nano DAP	1000
3	Mukhyamantri Maka Mission (State Plan) 2026-27	9000	Nano DAP	1000
		1500	Nano Urea	1000
		50	Nano Urea	500
4	Technology Mission on Cotton (State Plan) 2026-27	5000	Nano DAP	1200
5	IAP Pulse (State Plan)	7590	Nano DAP	1000

Measures undertaken by the Nano Fertilizer Manufacturers:

- Nano Fertilizer Manufacturers have undertaken extensive awareness and promotional activities to encourage the adoption of nano fertilizers across major agricultural states. These include farmer meetings, crop seminars, field demonstrations, field days, and institutional trials to educate farmers on product usage, nutrient efficiency, cost benefits, and crop performance.
- The Nano Fertilizer Manufacturers have also partnered with ICAR institutes, Krishi Vigyan Kendras (KVKs), State Agricultural Universities, and State Agriculture Departments to conduct research, field trials, and training programmes for extension workers, retailers, and other stakeholders to promote the correct use of Nano fertilizers.
- To further increase awareness, companies have used television campaigns, Kisan Melas, agricultural exhibitions, wall paintings, hoardings, dealer displays, mobile campaigns, printed literature, and digital platforms such as YouTube and Facebook. Special outreach programmes, including Kisan Goshthis, Viksit Bharat Sankalp Yatra activities, and village-level campaigns, have also been organized.
- Manufacturers such as IFFCO and Coromandel International Limited (CIL) have informed that farmer feedback has been collected through interactions and testimonials. According to the companies, farmers have generally reported positive experiences with nano fertilizers and have shown willingness to continue using them.

The Nano Fertilizer production capacity established and the actual production of Nano Fertilizers in the country, since inception till 29.07.2026 is enclosed at Annexure.

Annexure

Annexure referred to in reply to Part (a) to (d) of Rajya Sabha Unstarred Question No. 1799 for answering on 04.08.2026

S. No.	Company Name	Name of Nano Fertilizer	Date of Commencement of Production	Installed Capacity (Combined/Interchangeable between the Products) (Lakh bottles of 500 ml each)	Production since Inception till 30.06.2026 (Lakh bottles of 500 ml each)
1	Coromandel International Limited (located at Kakinada, Andhra Pradesh)	Nano DAP (2:5:0:0)	10.09.2023	200	194.96
		Nano DAP (8:18:0:0)	18.05.2026		2.18
		Nano Urea (500 ml)	28.09.2024		7.38
		Nano Urea (1 Litre)	29.03.2026		0.36
2	IFFCO (Units located at Kalol, Gujarat; Phulpur & Aonla, Uttar Pradesh; Bengaluru, Karnataka)	Nano Urea 4%	01.08.2021	2900	1510.37
		Nano Urea Plus 20%	10.05.2024		
		Nano DAP	21.04.2023		251.19
		Nano Micronutrients (Nano Zinc & Nano Copper)	—		—
3	Meghmani Crop Nutrition Limited (located at Ahmedabad, Gujarat)	Nano Urea	13.03.2024	500	7.5
		Nano DAP	01.07.2026	300	0.225
		Nano NPK	01.08.2026	100	0
		Nano Zinc	15.08.2026	50	0
4	Nano Fertilizers Private Limited (located at Gohad, Bhind, Madhya Pradesh)	Nano Urea (27%)	01.05.2026	320	1.93
		Nano DAP (8:18:0:0)	01.05.2026	170	0.56

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5	Proto9 Materials Pvt. Ltd. (located at Bhusawal, Maharashtra)	Nano Zinc (Liquid)	23.06.2026	180	0.50
		Nano Phosphorus 3% (Liquid)	16.06.2026		0.42
		Nano NPK (6:7:5) (Liquid)	16.06.2026		0.42
6	Rashtriya Chemicals and Fertilizers Limited (RCF) (located at Trombay, Maharashtra)	Nano Urea	01.02.2025	540	5.19
7	Ray Nano Science & Research Centre (located at Anand, Gujarat)	Nano Urea N5	22.06.2023	450	8.41
		Nano Urea N16	27.03.2026		0.24
		Nano DAP	01.05.2026		0.016
		Nano NP	05.05.2026		0.0006
8	The Energy and Resources Institute (TERI) (located at Bathinda, Punjab)	Nano Phosphorus	11.05.2024	60	10.37
9	Zuari Farmhub Limited (PPL) (located at Bathinda, Punjab)	Nano DAP	30.05.2024	24	46.14
		Nano Urea	30.05.2024	6	11.12
	Total			5800	2059.48