

GOVERNMENT OF INDIA  
MINISTRY OF CHEMICALS AND FERTILIZERS  
DEPARTMENT OF FERTILIZERS

**LOK SABHA**

**UNSTARRED QUESTION NO. 1086 TO BE ANSWERED ON: 05.12.2025**

**Distribution of Nano Urea and Nano DAP**

1086. Smt. Sangeeta Kumari Singh Deo:

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

- (a) the details of Nano Urea and Nano DAP distribution during the financial year 2022–23 to 2024–25, including the specific quantity allocated to Balangir and Sonepur districts of Odisha;
- (b) whether the Government has evaluated the field-level effectiveness of Nano fertilizers in drought-prone districts such as Balangir in the State of Odisha, if so, the details thereof; and
- (c) the plans to expand training and awareness programmes for farmers regarding Nano fertilizers, especially in western Odisha where adoption remains limited?

**ANSWER**

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS & FERTILIZERS

**(SMT. ANUPRIYA PATEL)**

(a) The Financial Year Wise distribution of Nano Urea and Nano DAP across the nation, including the State of Odisha is placed at **Annexure A and B**, respectively. Additionally, the Sales of Nano Urea and Nano DAP in Balangir and Sonepur districts of Odisha is placed at **Annexure C**.

(b) In order to evaluate field-level effectiveness of Nano fertilizers, an MoU has been signed with ICAR on 03.11.2025 for undertaking a Network Project on the evaluation of Nano Urea, at a cost of ₹21.20 crore (including GST) and funded jointly by fertilizer PSUs/cooperatives. The project is scheduled to be conducted over a period of five years. The project is conducted in several Agricultural University/Institutes, including Indian Council of Agricultural Research – Central Rice Research Institute (ICAR-CRRI), Cuttack, Odisha.

Furthermore, ICAR has also initiated a project, funded by Indian Council for Fertilizers and Fertilizer Technology Research (ICFFTR) with a total outlay of ₹160 lakh,

to evaluate the impact of Nano Fertilizers on crop growth, soil health, and nutrient uptake across various agro-ecological zones, in August, 2024 for a period of 2 years.

Additionally, IFFCO has informed that they evaluated their Nano fertilisers in drought prone district like Balangir on crops like Paddy, Cotton, Brinjal through farmer field trials and collaborative trials with Odisha University of Agriculture & Technology (OUAT), Bhubaneswar. Nano fertilizer trials conducted on Brinjal at Regional Research & Technology Transfer Station (RRTTS), OUAT, Bhawanipatna, Kalahandi and on Paddy at OUAT Seed Research Farm, Bargarh demonstrated better yield even at approximately 25-50% reduced dose of chemical fertilisers.

(c) In order to promote the use of Nano Fertilizers among farmers across the country, including in the State of Odisha, the following measures have been undertaken:

- i. Use of Nano Fertilizers is promoted through different activities such as awareness camps, webinars, field demonstrations, Kisan Sammelans and films in regional languages etc.
- ii. Nano Fertilizers are made available at Pradhan Mantri Kisan Samridhi Kendras (PMKSKs) by concerned companies.
- iii. Nano Fertilizers has been included under monthly supply plan issued by Department of Fertilizers regularly.
- iv. For ease in application and utilization of Nano fertilizers like Nano Urea 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.
- v. 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.
- vi. IFFCO has informed that they are conducting regular training and awareness programs such as field demonstrations, Farmers meetings, Sale point Personnel Trainings, Drone Spraying campaigns, Road shows, Publicity Vans, Wall paintings etc. upto field level in the State of Odisha.

\*\*\*\*\*

**Annexure A**

**Annexure referred to in reply to part ( a) of Lok Sabha Unstarred Question No.1086 for answer on 05.12.2025**

<b>Nano Urea</b> <b>(Qty in Lakh Bottles of 500ml each)</b>				
<b>S.No</b>	<b>State Name</b>	<b>2022-23</b>	<b>2023-24</b>	<b>2024-25</b>
		<b>SALES</b>	<b>SALES</b>	<b>SALES</b>
1	Andaman & Nicobar	0.00	0.00	0.00
2	Andhra Pradesh	4.80	3.24	3.02
3	Arunachal Pradesh	0.00	0.00	0.00
4	Assam	5.34	7.46	11.33
5	Bihar	28.56	12.82	12.15
6	Chandigarh	0.00	0.00	0.00
7	Chhattisgarh	11.02	4.33	3.56
8	Dadra and Nagar Haveli	0.00	0.00	0.00
9	Daman and Diu	0.00	0.00	0.00
10	Delhi	0.10	0.23	0.00
11	Goa	0.00	0.00	0.00
12	Gujarat	17.60	27.47	30.12
13	Haryana	12.59	8.25	10.21
14	Himachal Pradesh	1.27	1.53	1.73
15	Jammu and kashmir	3.00	2.95	1.26
16	Jharkhand	3.66	2.22	3.94
17	Karnataka	19.64	9.59	15.57
18	Kerala	1.20	0.60	0.76
19	Lakshadweep	0.00	0.00	0.00
20	Madhya Pradesh	23.38	16.28	24.89
21	Maharashtra	25.04	14.92	35.59
22	Manipur	0.44	0.09	0.00
23	Meghalaya	0.00	0.01	0.00
24	Mizoram	0.17	0.68	0.00
25	Nagaland	0.00	0.01	0.00
26	Odisha	11.21	6.78	5.78
27	Puducherry	0.08	0.01	0.00
28	Punjab	22.71	22.79	24.79
29	Rajasthan	25.23	20.08	22.11
30	Sikkim	0.00	0.00	0.00
31	Tamil Nadu	9.94	4.62	7.19
32	Telangana	6.00	3.09	5.31
33	Tripura	0.16	0.01	0.00
34	Uttarakhand	2.34	1.68	27.94
35	Uttar Pradesh	63.52	22.59	4.59
36	West Bengal	26.36	12.42	21.79
<b>GRAND TOTAL</b>		<b>325.35</b>	<b>206.77</b>	<b>273.62</b>

**Annexure B**

Annexure referred to in reply to part ( a) of Lok Sabha Unstarred Question No.1086 for answer on 05.12.2025

<b>Nano DAP</b> (Qty in Lakh Bottles of 500ml each)				
<b>S.No</b>	<b>State Name</b>	<b>2022-23</b>	<b>2023-24</b>	<b>2024-25</b>
		<b>SALES</b>	<b>SALES</b>	<b>SALES</b>
1	Andaman & Nicobar	0.00	0.00	0.00
2	Andhra Pradesh	0.00	2.74	9.62
3	Arunachal Pradesh	0.00	0.00	0.00
4	Assam	0.00	0.46	1.63
5	Bihar	0.00	1.43	5.46
6	Chandigarh	0.00	0.00	0.00
7	Chhattisgarh	0.00	0.65	2.86
8	Dadra and Nagar Haveli	0.00	0.00	0.00
9	Daman and Diu	0.00	0.00	0.00
10	Delhi	0.00	0.02	0.00
11	Goa	0.00	0.00	0.00
12	Gujarat	0.00	4.17	9.29
13	Haryana	0.00	1.52	1.83
14	Himachal Pradesh	0.00	0.17	0.14
15	Jammu and kashmir	0.00	0.48	0.42
16	Jharkhand	0.00	0.30	0.63
17	Karnataka	0.00	4.13	11.45
18	Kerala	0.00	0.17	0.26
19	Lakshadweep	0.00	0.00	0.00
20	Madhya Pradesh	0.00	5.22	18.03
21	Maharashtra	0.00	8.36	30.89
22	Manipur	0.00	0.00	0.00
23	Meghalaya	0.00	0.01	0.00
24	Mizoram	0.00	0.08	0.00
25	Nagaland	0.00	0.00	0.00
26	Odisha	0.00	0.99	5.55
27	Puducherry	0.00	0.02	0.07
28	Punjab	0.00	2.19	5.77
29	Rajasthan	0.00	3.96	10.04
30	Sikkim	0.00	0.00	0.00
31	Tamil Nadu	0.00	1.54	3.63
32	Telangana	0.00	1.87	6.04
33	Tripura	0.00	0.00	0.00
34	Uttarakhand	0.00	0.42	16.57
35	Uttar Pradesh	0.00	12.97	8.42
36	West Bengal	0.00	3.98	11.40
<b>GRAND TOTAL</b>		<b>0.00</b>	<b>57.82</b>	<b>160.00</b>

**Annexure C**

Annexure referred to in reply to part ( a) of Lok Sabha Unstarred Question No.1086 for answer on 05.12.2025

<b>Sales of Nano Urea and Nano DAP in the State of Odisha Qty in Lakh Bottle of 500ml each</b>							
<b>S.No</b>	<b>District Name</b>	<b>2022-23</b>		<b>2023-24</b>		<b>2024-25</b>	
		<b>Nano Urea</b>	<b>Nano DAP</b>	<b>Nano Urea</b>	<b>Nano DAP</b>	<b>Nano Urea</b>	<b>Nano DAP</b>
1	Sonepur	0.185	0.000	0.269	0.014	0.081	0.168
2	Balangir	0.301	0.000	0.277	0.034	0.176	0.183