GOVERNMENT OF INDIA
MINISTRY OF CHEMICALS AND FERTILIZERS
DEPARTMENT OF FERTILIZERS

RAJYA SABHA

UNSTARRED QUESTION **NO. 1777** TO BE ANSWERED **ON: 16.12.2025**

Internal review of nano urea production, distribution and adoption efficiency

1777. Shri Narhari Amin:

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

(a) whether the Ministry or IFFCO conducted any internal evaluations during the years 2023–24 and 2024–25 regarding the adoption of nano urea and if so, the major observations recorded therein;

(b) the details of national production, allocation and offtake of nano urea, along with information on any financial assistance extended under Government schemes in this regard since 2019-20, year-wise; and

(c) the data pertaining to the distribution of nano urea, participation of retailers and coverage of field demonstrations in the State of Gujarat for the last three years, districtwise?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS AND FERTILIZERS

(SMT. ANUPRIYA PATEL)

(a) IFFCO has not sent any evaluation report conducted regarding the adoption of Nano Urea. However, an MoU has been signed between the National Productivity Council (NPC) of India and the Department of Fertilizers on 5th March, 2024 to undertake a study on Nano Urea titled “Evaluating the Efficacy, Utility and Impact of Nano Urea in Comparison to Conventional Urea.” Further, a Phase-II study under the said MoU was signed on 14.11.2025 to evaluate the extent of replacement of conventional urea by Nano Urea.

In addition, an MoU was signed with the Indian Council of Agricultural Research (ICAR) on 03.11.2025 for undertaking a Network Project on the evaluation of Nano Urea, funded jointly by fertilizer PSUs and cooperatives. The project is proposed to be conducted over a period of five years and is being implemented across various collaborating Agricultural Universities and Research Institutes.

Furthermore, ICAR has also initiated a project for the period 2024–26, funded by the Indian Council for Fertilizers and Fertilizer Technology Research (ICFFTR), to

evaluate the impact of Nano Fertilizers on crop growth, soil health and nutrient uptake across different agro-ecological zones of the country.

(b) Since its inception in February, 2021, a total of **14.11 crore bottles** (500ml each) of Nano Urea have been produced nationwide up to 30.11.2025. During the same period, **11.62 crore bottles** have been sold across the country. The year-wise details of the same is as below:

<Figures in Lakh Bottles of 500ml each>

	FY 2021-22	**FY 2022-23**	**FY 2023-24**	**FY 2024-25**	**FY 2025-26 (Till 30.11.2025)**	**Total**
Production	290.02	475.12	90.71	388.15	167.17	**1411.17**
Sales	215.20	326.80	207.43	273.55	138.99	**1161.97**

No financial assistance is provided by the Government of India for Nano Urea. However, State Government of Gujarat is providing financial assistance to the farmer for the purchase of Nano Fertilizer. Under this support, 50% financial assistance given to the normal farmers and 75% financial assistance given to ST and SC farmers of the total cost.

(c) District-wise and year-wise Sale of Nano Urea in Gujarat state is placed as **Annexure-A**. In addition to this, the field demonstration of Nano Urea in the State of Gujarat for the last 3 years, district-wise is placed at **Annexure B**.

*****

Annexure A

Annexure referred to in reply to part (c) of Rajya Sabha Unstarred Question No 1777 for answering on 16.12.2025

Figures in Lakh Bottles of 500ml each

District-wise Sales of Nano Urea in the State of Gujarat Since Feb. 2021 till Nov. 2025		
S.No	**District**	**Sales of Nano Urea**
1	Ahmedabad	5.55811
2	Amreli	2.48228
3	Anand	3.59076
4	Arvalli	1.71478
5	Banas Kantha	6.38592
6	Bharuch	2.0532
7	Bhavnagar	1.86792
8	Botad	1.33656
9	Chhota Udepur	2.93304
10	Dahod	2.92656
11	Devbhumi Dwarka	1.1242
12	Gandhinagar	0.9336
13	Gir Somnath	1.25616
14	Jamnagar	3.77906
15	Junagadh	1.74534
16	Kheda	3.04584
17	KOTHARA	0.0012
18	Kutch	5.28576
19	Mahesana	2.95416
20	Mahisagar	2.57352
21	Morbi	1.80816
22	NADIAD	0.00096
23	Narmada	0.74496
24	Navsari	1.1832
25	Panch Mahals	3.79602
26	Patan	2.32938
27	Porbandar	0.45744
28	Rajkot	4.05202
29	Sabarkantha	2.55936
30	Surat	2.51824
31	Surendranagar	3.33864
32	Tapi	1.54152
33	Vadodara	3.52992
34	Valsad	0.42348
Grand Total		80.03295

Annexure B

Annexure referred to in reply to part (c) of Rajya Sabha Unstarred Question No 1777 for answering on 16.12.2025

Figures in Lakh Bottles of 500ml each

Field demonstration of Nano Urea in the State of Gujarat for the last 3 years				
S. No.	**District**	**FY 2023-24**	**FY 2024-25**	**FY 2025-26 (Apr to Nov-2025)**
1	Ahmedabad	436	340	65
2	Amreli	46	5	10
3	Anand	291	82	10
4	Arvalli	346	15	4
5	Banas Kantha	429	233	32
6	Bharuch	84	13	0
7	Bhavnagar	292	126	42
8	Botad	338	225	0
9	Chhota Udaipur	487	16	43
10	Dahod	180	78	51
11	Devbhumi Dwarka	572	309	58
12	Gandhinagar	151	49	2
13	Gir Somnath	118	51	11
14	Jamnagar	550	534	307
15	Junagadh	205	197	0
16	Kheda	103	140	0
17	Kutch	368	26	4
18	Mahesana	135	24	0
19	Mahisagar	30	2	0
20	Morbi	226	6	10
21	Narmada	197	0	23
22	Navsari	96	150	34
23	Patan	192	61	5
24	Panch Mahals	69	10	10
25	Porbandar	45	1	0
26	Rajkot	454	149	128
27	Sabarkantha	164	104	11
28	Surat	216	201	25
29	Surendranagar	145	25	54
30	Tapi	151	27	34
31	Vadodara	146	102	56
32	Valsad	22	135	44
Total		**7284**	**3436**	**1073**