

GOVERNMENT OF INDIA
MINISTRY OF CHEMICALS AND FERTILIZERS
DEPARTMENT OF FERTILIZERS

LOK SABHA

STARRED QUESTION NO. 188* TO BE ANSWERED ON: 12.12.2025

Nano Urea Production

***188: Dr. C N Manjunath:**

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

- (a) the current status of nano urea production and distribution targets set for Karnataka during the last and current financial years, year-wise and district-wise;
- (b) whether awareness campaigns or demonstration programmes have been undertaken to educate farmers in Ramanagara, Bengaluru Rural and its nearby districts on the use of nano urea, if so, the details thereof, district-wise; and
- (c) whether the Government proposes to monitor long-term soil health and productivity outcomes in the districts adopting nano fertilizers at a large scale, if so, the details thereof, district-wise?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS & FERTILIZERS

(SHRI JAGAT PRAKASH NADDA)

- (a) to (c) A statement is laid on the table of the House.

STATEMENT REFERRED TO LOK SABHA STARRED QUESTION NO. *188 FOR 12.12.2025 REGARDING "NANO UREA PRODUCTION" TABLED BY DR. C N MANJUNATH

(a) Government of India is not directly involved in setting up of Nano Fertilizers Plants. However, M/s IFFCO, within the Karnataka Industrial Areas Development Board (KIADB), Devanahalli, Bengaluru Rural district, has established a Nano Fertilizer Manufacturing Plant. The facility has commenced production of Nano Urea, and to date, it has manufactured approximately 18 lakh bottles of 500 ml Nano Urea. The district-wise target and distribution of Nano Urea in the State of Karnataka, for the last and current financial year, is placed at **Annexure A**.

(b) In order to promote the use of Nano Fertilizers among farmers across the country, including in the State of Karnataka and its districts, 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.

Additionally, the Agriculture Department of the Government of Karnataka has launched extensive awareness campaigns across the State to highlight the benefits of Nano Urea and the drawbacks associated with conventional urea. Information promoting the judicious use of fertilizers is widely disseminated among farmers and public representatives through handouts, posters, mobile vans, newspaper advertisements, electronic media, and Krishi Melas.

To further encourage the adoption of nano fertilizers, the Department has conducted practical trainings and field demonstrations, including drone-based applications, at farmers' fields and Krishi Vigyan Kendras (KVKs), with active

participation from agricultural scientists. As a result of these sustained efforts, 17,48,062 bottles (500 ml) of Nano Urea have been utilized during the current year to date.

Furthermore, Karnataka Agriculture Department, in collaboration with M/s IFFCO, is undertaking large-scale awareness programmes and drone demonstrations across multiple districts, such as Ramanagara, Bengaluru Rural, Mandya, Bengaluru Urban, Kolar, Chikkaballapur, Tumkur, and others, to educate farmers on the effective and efficient use of Nano Urea, as per the details at **Annexure B**.

(c) An MoU has been signed between National Productivity Council (NPC) of India and Department of Fertilizers on 5th March, 2024, for a period of 2 years (2024-26) to undertake the study of Nano Urea on "Evaluating Efficacy, Utility and Impact of Nano Urea in comparison to Conventional Urea in 10 State, including the State of Karnataka and its districts.

ICAR initiated a 2024–26 project, to evaluate the impact of Nano Fertilizers on crop growth, soil health, and nutrient uptake across various agro-ecological zones.

In addition, ICAR has launched a network project in November 2025 titled "Evaluation of Nano Urea on Crop Productivity and Nitrogen Use Efficiency in Diverse Agro-Ecological Zones of India". This five-year project, covering 14 centres, 10 major agro-ecological zones, and 12 key crops, aims to enhance understanding of the long-term effects of Nano Urea on crop yield, produce quality, soil nutrient balance, and the mechanism of nutrient uptake from nano fertilizers in plant metabolism across different agro-ecological zones.

Annexure A for Lok Sabha Starred Question No. *188

Nano Urea distribution targets and Sales for the State of Karnataka					
S.No.	District	2024-25		2025-26 (Till Nov. 25)	
		Target	Distribution	Target	Distribution
1	Bagalkot	105273	95608	105309	89306
2	Bangalore Rural	42807	14002	21809	17489
3	Belagavi	174544	149444	273960	169180
4	Bellary	133646	61086	104371	51952
5	Bengaluru Urban	36080	6556	11609	5431
6	Bidar	44549	73235	24400	82288
7	Vijayapura	119063	143246	89793	166723
8	Chamarajnar	61248	34838	34600	25735
9	Chikballapur	56326	38554	31014	29050
10	Chikmagalur	89807	30716	67529	26041
11	Chitradurga	66927	32496	50598	67620
12	Dakshin Kannada	30699	4455	7691	44712
13	Davangere	140780	62136	113482	60518
14	Dharwad	60917	64124	56738	58531
15	Gadag	54719	79457	49902	74274
16	Kalaburgai	76058	141052	60891	125758
17	Hassan	122422	86450	101036	56318
18	Haveri	105698	123637	128736	69765
19	Kodagu	46911	11364	40216	15523
20	Kolar	46904	27475	27259	25596
21	Koppal	115171	71016	92031	57865
22	Mandya	109167	28398	93956	18340
23	Mysore	91482	36223	74588	42963
24	Raichur	230277	148599	160754	111359
25	Ramanagara	52165	23513	34504	12553
26	Shivamogga	93879	75556	60613	43357
27	Tumkur	70422	41680	55502	35198
28	Udupi	29594	2917	4661	1301
29	Uttar Kannada	45493	13777	31158	10452
30	Vijayanagara	145931	59205	89513	43784
31	Yadgir	136041	90524	101776	109080
Total		2735000	1871339	2199999	1748062

Annexure B for Lok Sabha Starred Question No. *188

Awareness campaigns/demonstration programmes conducted to educate farmers in Ramanagara and neighbouring districts				
District	Demonstrations Conducted	Farmers Meeting	Farmer & Retailer Training	Awareness Campaigns
Bangalore Rural	282	564	102	154
Bangalore Urban	145	242	85	145
Chickballapur	725	482	297	533
Kolar	427	269	154	389
Mandya	215	324	58	238
Ramanagara	213	492	89	693
Tumkur	156	312	56	902
Grand Total	2163	2685	840	3054