

GOVERNMENT OF INDIA
MINISTRY OF CHEMICALS AND FERTILIZERS
DEPARTMENT OF FERTILIZERS

RAJYA SABHA

UNSTARRED QUESTION NO. 1300 TO BE ANSWERED ON: 11.03.2025

Promotion of nano fertilizers and organic alternatives in Odisha

1300: SHRI DEBASHISH SAMANTARAY:

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

- (a) the steps taken to promote the use of nano fertilizers and organic alternatives in Odisha;
- (b) whether Government has conducted any awareness programs for farmers in Odisha on the benefits of bio-fertilizers and organic farming;
- (c) the details of research initiatives undertaken to develop eco-friendly fertilizers suitable for Odisha's soil conditions; and
- (d) whether Government plans to increase production and distribution of organic and nano fertilizers in Odisha?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS & FERTILIZERS

(SMT. ANUPRIYA PATEL)

(a) & (b) : In order to promote the use of Nano Fertilizers amongst the farmers across the country, including the State of Odisha, the following steps have been taken:

- i. Government of India is pursuing with the states on use of Nano fertiliser at various forums. In the Zonal conference for assessment of fertilizers for Kharif 2024 season, held from 5th February to 9th February, 2024, Department of Agriculture and Farmers Welfare (DA&FW) requested the State Governments to promote the use of nano fertiliser in their states through their extension machinery.
- ii. DA&FW during the Rabi, 2024-25 season assessed the requirement of Nano Urea and Nano DAP. DA&FW vide letter 2-1/2022-NFSM dated 3rd July, 2023 informed all the State Govt. / UTS /ICAR institutes to include FCO approved application of Nano-fertilizers as critical inputs in the cafeteria of interventions for demonstrations (Cluster Demonstrations/ Block Demonstrations/ Cluster Front Line Demonstrations/ Front Line Demonstrations) to be conducted under NFSM/ NMEO as per SAUs/ ICARs recommended package of practices.
- iii. Use of Nano Urea is promoted through different activities such as awareness camps, webinars, nukkad nataks, field demonstrations, Kisan Sammelans and films in regional languages etc.

- iv. Nano Urea and Nano DAP are made available at Pradhan Mantri Kisan Samridhi Kendras (PMKSKs) by concerned companies.
- v. Nano Urea has been included under monthly supply plan issued by Department of Fertilizers regularly.
- vi. ICAR through Indian Institute of Soil Science, Bhopal recently organized National Campaign on “Efficient and Balanced Use of Fertilizer (including Nano-fertilizers)”.
- vii. Promotion of use of nano fertilizers was done during the Viksit Bharat Sankalp Yatra (VBSY) which was launched on 15th November, 2023.
- viii. 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.
- ix. 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.

2. Government of India is promoting organic farming through the schemes of Paramparagat Krishi Vikas Yojana (PKVY) in all the States/UTs (except North Eastern States) and for North Eastern States, Mission Organic Value Chain Development for North Eastern Region (MOVCDNER) scheme is being implemented. Both the schemes stress on end-to-end support to farmers engaged in organic farming i.e. from production to post-harvest management training and capacity building. The main focus of the PKVY and MOVCDNER scheme is to promote natural resource based integrated and climate resilient sustainable farming systems that ensure maintenance and increase of soil fertility, natural resource conservation, on-farm nutrient recycling and minimize dependence of farmers on external inputs. Since 2015-16, under PKVY, total fund Rs. 92.73 Cr has been released for 45800 ha area under organic farming involving 70026 farmers for the State of Odisha. Biofertilizers are promoted under Paramparagat Krishi Vikash Yojana (PKVY). Under PKVY, States/UTs are provided financial assistance of Rs. 31,500/ha in total in 3 years in the organic clusters out of which, Rs. 15,000/ha is provided directly to farmers through DBT for on-farm and off-farm organic inputs, Rs. 4,500/ha for marketing, packaging, branding, value addition etc., Rs. 3,000/ha for certification and residue analysis and Rs. 9,000/ha for training and capacity building. Farmers can avail maximum 2 ha area under the scheme.

(c): The details of the research initiatives undertaken in the State of Odisha are as below:

- i. Experiment on Nano Urea & Nano DAP is conducted by Odisha University of Agriculture and Technology (OUAT) in its own farm as well as in farmers' field.
- ii. Solid Bio-fertilizers consortia in the name of Kalinga-I, Kalinga-II & Kalinga-III is being produced by the OUAT for farmers of the State.
- iii. Liquid Biofertilizers like Rhizobium, Azotobactor, Azospirillum are also produced by the OUAT for farmers use in pulses and cereal crops.

(d): The Government of Odisha has informed that they plan to increase production and use of organic manure at farmers level through training and demonstrations conducted under different schemes like "Bharatiya Prakrutik Krishi Paddhati (BPKP)", Paramparagat Krishi Vikas Yojana (PKVY) and National Mission on Natural farming(NMNF). Further, awareness at different level is created among farmers of the State for suitable replacement of conventional fertilizers by Nano fertilizers.

Furthermore, in the State of Odisha, 26.74 Lakh Bottles (500ml each) of Nano Urea and 5.59 Lakh Bottles (500ml each) of Nano DAP has been sold since inception.
