

WRITTEN ANSWERS TO UNSTARRED QUESTIONS**Productivity and quality under organic farming**

1921. SHRIMATI RENUKA CHOWDHURY: Will the Minister of AGRICULTURE AND FARMERS WELFARE be pleased to state:

(a) whether Government has formulated any plan to evolve efficient, economically viable and environmentally sustainable organic farming system for the country, if so, the details thereof; and

(b) the fresh steps taken by Government for improving productivity and quality of produces under the organic farming system?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND FARMERS WELFARE (SHRI PARSHOTTAM RUPALA): (a) and (b) Realizing the potential and benefits of organic farming particularly in areas like hilly, tribal and also in rainfed areas where utilization of chemical fertilizers and pesticides is relatively lower, the Government of India is promoting organic farming in country through the dedicated schemes of National Mission for Sustainable Agriculture (NMSA) viz. Paramparagat Krishi Vikas Yojana (PKVY) and Mission Organic Value Chain Development for North Eastern Region (MOVCDNER). Other schemes of Government of India are also supporting organic farming viz., National Mission on Oilseeds and Oilpalm (NMOOP), National Food Security Mission (NFSM), Mission for Integrated Development of Horticulture (MIDH) and Indian Council Agriculture Research (ICAR) Network Project on Organic Farming. The pattern of assistance is given in the Statement-I, II and III respectively (*See below*).

The Government is taking following steps for improving the productivity and quality of produce under organic farming system and focusing on creating awareness and educating the farmers about organic farming practices in the areas where clusters are formed.

- (a) ₹ 80,000 per cluster is provided as financial assistance under PKVY Scheme for the mobilization of farmers through different training and exposure visits.
- (b) Similarly, under MOVDNER scheme the financial assistance of ₹ 8 crore is allocated for North Eastern Region to create awareness and publicity through lead agencies.
- (c) In order to provide research and technological backstopping to organic farming in the country in general and NEH Region in particular, ICAR-National Organic Farming Research Institute (NOFRI) at Gangtok, Sikkim is

established. The institute will undertake basic, strategic and adaptive research on efficient, economically viable and environmentally sustainable organic farming systems for improving productivity, resource use efficiencies and quality of produce. Besides, it will impart vocational and advanced training to stakeholders for promotion of organic farming in the country.

Statement-I

(A) National Mission of Sustainable Agriculture (NMSA)-Organic and INM Component of Soil Health Management (SHM):

- (i) Setting up of State of art liquid/ carrier based Biofertilizer/Biopesticide units, 100% Assistance to State Government/Government Agencies upto a maximum limit of ₹ 160.00 lakh/unit and 25% of total financial outlay or limited to ₹ 40 lakh/unit whichever is less for individuals/private agencies through NABARD as back ended capital investment subsidy scheme of 200 Total Per Annum (TPA) production capacity.
- (ii) Setting up of Bio-fertilizer and Organic fertilizer testing Quality Control Laboratory (BOQCL) or Strengthening of existing Laboratory under FCO, assistance up to maximum limit of ₹ 85 lakh for new laboratory and up to a maximum limit of ₹ 45 lakh for strengthening of existing infrastructure to State Government Laboratory under Agriculture or Horticulture Department.
- (iii) Promotion of Organic Inputs on farmer's field (Manure, Vermi-compost, Bio-Fertilizers Liquid/Solid, Waste compost, Herbal extracts etc.), 50% of cost subject to a limit of ₹ 5000/- per ha and ₹ 10,000 per beneficiary.
- (iv) Setting up of mechanized Fruit/Vegetable market waste/Agro waste compost production unit 100% financial assistance to State Government/ Government Agencies upto a maximum limit of ₹ 190.00 lakh per unit and 33% of project cost or maximum limit to ₹ 63 lakh per unit whichever is less for individuals/private agencies through NABARD as capital investment for establishment of agro/vegetable waste compost production units of 3000 Total Per Annum (TPA) production.
- (v) **Paramparagat Krishi Vikas Yojana (PKVY):** The scheme is implemented by the State Governments on a cluster basis of 20 hectare each. The farmer within the cluster is given following financial assistance for Integrated Manure Management:
 - (a) Liquid Bio-fertilizer consortia (Nitrogen fixing/ Phosphate Solubilizing/ Potassium mobilizing bio-fertilizer) @ ₹ 500/acre x 50 of ₹ 25000 per cluster in first year.

- (b) Liquid Biopesticides (Trichoderma Viridae, Pseudomonas Fluorescens, Matarhizium, Beaviourie Bassiana, Pacelomyces, Verticillium) @ ₹ 500/ acre X 50 of ₹ 25000 per cluster in second year.
- (c) Phosphate Rich Organic Manure (PROM) as per specification given in FCO, 1985 @ ₹ 1000/acre x 50 of ₹ 50000 in first year for procuring and application of PROM.
- (d) Farmer can take up any pest control mechanism easily available in their local area @ ₹ 500/ acre x 50 of ₹ 25000 in second year.
- (e) Vermicompost (size 7'x3'x1) @ ₹ 5000/unit x 50 of ₹ 250000 will be assisted for procurement of earthworms, preparation of pits, etc for construction of vermi composting pits.

The detail guidelines are uploaded in web site www.agricoop.gov.in. The pattern of assistance is at Statement-IA

- (vi) **MOVCDNER Central Sector Scheme:** the assistance is provided for cluster development, on/off farm input production, supply of seeds/ planting materials, setting up of functional infrastructure, establishment of integrated processing unit, refrigerated transportation, pre-cooling/ cold stores chamber, branding labeling and packaging, hiring of space, hand holdings, organic certification through third party, mobilization of farmers/processors etc. Under this scheme, an area of 0.50 lakh ha will be covered under organic farming in North Eastern Region of the country during next three years. The detail guidelines are uploaded in web site www.agricoop.gov.in. The pattern of assistance is at Statement-IB.

(B) Mission for Integrated Development of Horticulture (MIDH):

1. **Adoption of Organic Farming** – 50% of cost limited to ₹ 10000/ha for a maximum area of 4 ha. Per beneficiary, spread over a period of 3 years involving assistance of ₹ 4000/- in first year and ₹ 3000/- each in second and third year. The programme to be linked with certification.
2. **Organic Certification** – ₹ 5 lakh for a cluster of 50 ha. which will include ₹ 1.50 lakh in first year, ₹ 1.50 lakh in second year and ₹ 2.00 lakh in third year.
3. **Vermi compost Units/organic input production** – 50% of cost conforming to the size of the unit of 30'X8'X2.5' dimension of permanent structure to be administered on pro-rata basis. For HDPE Vermibed, 50% of cost conforming to the size of 96 cft (12'X4'X2') and IS 15907:2010 to be administered on pro-rata basis (₹ 100,000/ unit for permanent structure and ₹ 16,000/unit for HDPE Vermibed)

(C) National Mission on Oilseeds and Oil Palm (NMOOP): Financial Assistance is being provided for different type of components including bio-fertilisers, Supply of Rhizobium culture/Phosphate Solubilising Bacteria (PSB)/Zinc Solubilising Bacteria (ZSB)/Azatobacter/Mycorrhiza and Vermi compost.

National Food Security Mission (NFSM): Under NFSM, financial assistance is provided for promotion of Bio-Fertilizer (Rhizobium/PSB) @50% of the cost limited to ₹ 300 per ha.

Rashtriya Krishi Vikas Yojana (RKVY): Organic Farming Projects are considered by respective State Level Sanctioning Committee.

Indian Council of Agricultural Research (ICAR): The Indian Council of Agriculture Research (ICAR), Pusa under Network project on Soil Biodiversity-Biofertiliser has developed improved and efficient strains of biofertiliser specific to different crops and soil types. Liquid Biofertiliser technology with higher shelf life has also been developed. Besides, the Council has developed technology to prepare various types of organic manures such as phosphocompost, vermincompost, bio-enriched compost, municipal solid waste compost, etc. from various organic wastes.

The ICAR also imparts training, organizes Front Line Demonstrations (FLDs) to educate farmers on all these aspects.

Statement-II

PKVY Guidelines

Name of Component	Assistance
A. Cluster Approach	
Cluster formation	One cluster 50 acres (20 ha) contiguous area. Assistance eligibility to farmer maximum one ha @ ₹ 20,000/- acre (₹ 50,000/- per ha) Total ₹ 10.00 lakhs for three years. ₹ 4.95 lakh for mobilization and PGS certification. Total ₹ 14.95 lakh per cluster.
Meetings and discussions of farmers.	@ ₹ 200/- per farmer (₹ 10,000/- for 3 years).
Exposure visit for farmer	@ ₹ 200/- per farmer (₹ 10,000/- for 3 years).

Name of Component	Assistance
Training of cluster member (3 Trainings)	@ ₹ 20,000/- per training (Total ₹ 60,000 for one cluster for 3 years).
TOTAL	₹ 80,000/-

B. PGS certification and quality control

Training on PGS certification (2 days)	@ ₹ 200/- per Lead Resourceful Person (LRP) Total ₹ 400/- for 3 years.
Training of Trainers (LRP) (3 days)	@ ₹ 250/- day (Total ₹ 750/- for 3 years).
Online Registration of farmer	@ ₹ 100/- per member (Total ₹ 10,000/- for 2 years).
Soil sample collection and testing (21 samples/year/cluster)	@ ₹ 190/- per sample (Total = 21X190 = ₹ 3990/- per year). (Total Rs. 11970/- for 3 years)
Process documentation – inputs used, organic manures and fertilizer used etc. for PGS certification.	@ ₹ 100/- per member (Total ₹ 5000/- per year) (Total ₹ 15000/- for 3 years).
Inspection of cluster member fields (3 inspections)	@ ₹ 400/- per inspection (Total ₹ 1200/- per year and ₹ 3600/- for 3 years).
Residue analysis of samples in NABL (8 Samples/year/cluster)	@ ₹ 10,000/- per sample (Total ₹ 80,000/- per year). (Total ₹ 160,000/- for 2 years).
Certification charges	@ ₹ 2000/- for 3 years.
Administrative expenses for certification.	@ ₹ 59950/- (Salary and maintenance)-for 3 years
TOTAL	₹ 2,63,670/-

C. Adoption of organic village

Conversion of land to organic.	@ ₹ 1000/-per acre (Total ₹ 50,000/ – per year) (Total ₹ 1,50,000/- for 3 years)
Organic seed/nursery raising, procurement	@ ₹ 500/- per acre (Total ₹ 25000/- per year (Total ₹ 75000/- for 3 years).
Production Units i.e. Pachagavya/ Beejamruth/Jeevamruth etc.	@ ₹ 1500/- per unit/acre (Total ₹ 75000/- for one cluster for 3 years).

Name of Component	Assistance
Green Manuring/Biological Nitrogen Harvest Planting.	@ ₹ 2000/- per acre (Total ₹ 1.00 lakh for 3 years).
Botanical extracts production units	@ ₹ 1000/- per unit/acre (Total ₹ 50,000/- for 3 years).
TOTAL	₹ 4,50,000/-

D. Integrated Manure Management

Liquid Bio-fertilizers	@ ₹ 500/- per acre (Total ₹ 25000/- for one cluster for 3 years).
Liquid Bi-pesticides	@ ₹ 500/- per acre (Total ₹ 25000/- for one cluster for 3 years).
Natural Pest Control Mechanism	@ ₹ 500/- per acre (Total ₹ 25000/- for one cluster for 3 years).
Phosphate Rich Organic Manure (PROM)	@ ₹ 1000/- per acre (Total ₹ 50,000/- for one cluster for 3 years).
Vermi-compost (Size 7'X3X1')	@ ₹ 5000/- per unit, 50 unit for one cluster (Total ₹ 2,50,000/- for one cluster for 3 years).
TOTAL	₹ 3,75,000/-

E. Custom Hiring Centre (CHC) Charges

Agriculture implements	@ ₹ 15,000/- per year (Total ₹ 45,000/- for 3 years)
Walk in tunnels for Horticulture crops	As per MIDH Guidelines.
Cattle shed/Poultry/Piggery for animal compost	As per Gokhul guidelines.
TOTAL	₹ 45000/-

F. Packing, Labelling and Branding

Packing material with PGS Logo + Hologram	@ ₹ 2500/- per acre (Total ₹ 1,25,000/- for 3 years) .
Transportation of organic products (four Wheeler 1.5 Ton Capacity)	@ ₹ 1,20,000/- total for one cluster.
Organic Fairs	@ ₹ 36330/- per cluster total for 3 years.
TOTAL	₹ 281,330/-
GRAND TOTAL	₹ 14,95,000/-

Statement-III*MOVCDNER Guidelines*

Sl. No.	Components	Rate (₹)
A. Value Chain Production		
A1. Development of Organic Production Clusters		
A.1.1.	Clusters development and formation of Farmer producer Companies, as per SFAC norms. For 100 FPCs each comprising of 500 farmers @ ₹ 20.375 lakh/FPC	4075/- per farmer
A.1.2	Assistance for on-farm input production infrastructure (@ ₹ 7500/- ha x 2 = ₹ 3750/ha) and off-farm inputs (@ ₹ 3750/ha)	15000/ha
A.1.3	Assistance for quality seed and planting material (50% of maximum ₹ 35000/ha limited to the actual cost as per crop)	17500 per ha
A.2 Support for extension services, input facilitation, training handholding and certification		
A.2.1	Assistance for setting up of input delivery, distribution and argil-machinery custom hiring centre through State lead agencies	10 lakh/ FPO
A.2.2	Support and extension services for training, handholding and certification at production stage	
A.2.2.1	Training, hand holding, documentation and certification of crop production through service providers (As per MIDH)	10,000/- per ha
B. Value Chain Processing (For FPC and private entrepreneur through Bank credit linked)		
B 1. Value Chain Post harvest-Setting up of collection, aggregation, grading facilities		
B.1.1	Setting up of functional infrastructure for collection, aggregation and grading units @ ₹ 15 lakh (75% subsidy)	11.25 lakh (175 No. total)
B 2. Setting up of value addition and processing units including packaging, storage and transportation		
B.2.1	Financial assistance for setting up of integrated processing units With TFO of ₹ 800 lakh or more limited to 75% to FPCs and 50% to private as credit linked back ended subsidy	600.00 lakh/unit (10 No. total)
B. 3 Value Chain Packaging, storage and transportation		
B.3.1	Integrated pack house 75% subsidy to FPCs on TFO of ₹ 50 lakh or more and 50% to private limited to ₹ 37.50 lakh	37.50 lakh/unit (20 No. total)

Sl. No.	Components	Rate (₹)
B.3.2	Transportation/4 wheeler up to TFO of ₹ 12 lakh (50%)	6.00 lakh/FPC. (25 No. total)
B.3.3.1	Refrigerated transport vehicle up to TFO of ₹ 25 lakh (75% subsidy to FPC and 50% to private)	18.75 lakh/unit (16 No. total)
B.3.3.2	Pre-cooling/cold stores/ripening chambers. FPOs	18.75 lakh/unit (16 No. total)
C. Value Chain Marketing – Branding, labelling, certification, quality control, retail outlets, awareness and publicity through lead agencies		
C.1	Branding, labelling, packaging, publicity and certification of processing units etc.	₹ 1100 lakh L.S. total
C.2	Seminars/conferences, workshops, Buyer-seller meets, Auction meetings, festivals.	₹ 400 lakh L.S. total
C.3	Consumer awareness Information dissemination through publicity, printed literature films and local advertisements	₹ 400 lakh L.S. total
C.4	Hiring of space in prime markets	₹ 600 lakh L.S. total
D. Value Chain Support Agencies		
D 1. Setting up of Lead agency/Organic Commodity Board/ Organic Mission for scheme implementation and market facilitation. To be set up at State level		
D.1.1	Staff, Manpower, Travel and contingencies, Institutional strengthening and hire/ purchase of machinery and equipments	5% of total scheme budget
D.1.2	Setting up of organic certification bodies. One time assistance will be provided for hiring consultants for preparation of operating manuals, training and exposure of manpower and facilitating institutional set up. Cost of manpower to be borne by the State.	₹ 500 lakh L.S. total

Benefits of national agriculture insurance scheme

1922. SHRIMATI RAJANI PATIL:
 SHRI DARSHAN SINGH YADAV:
 SHRI P. BHATTACHARYA:
 KUMARI SELJA:

Will the Minister of AGRICULTURE AND FARMERS WELFARE be pleased to state:

(a) whether it is a fact that the National Agriculture Insurance Scheme, launched by Government, is not beneficial for the farmers, if so, the details thereof; and