

GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE AND FARMERS WELFARE
DEPARTMENT OF AGRICULTURE AND FARMERS WELFARE

LOK SABHA
UNSTARRED QUESTION NO. 1158
TO BE ANSWERED ON THE 30TH JULY, 2024

PROMOTION OF THE USE OF BIO-FERTILIZERS

1158. SHRI HASMUKHBHAI SOMABHAI PATEL:
SHRI MITESH PATEL BAKABHAI:

Will the Minister of AGRICULTURE AND FARMERS WELFARE कृषि एवं किसान कल्याण मंत्री be pleased to state:

- (a) whether the Government is promoting the use of bio-fertilizers;
- (b) if so, the details of the initiatives/schemes aimed at promoting bio-fertilizers; and
- (c) the statistics of the use of bio-fertilizers during the last ten years till date, year-wise and State-wise?

ANSWER

THE MINISTER OF STATE FOR AGRICULTURE AND FARMERS WELFARE

कृषि एवं किसान कल्याण राज्य मंत्री (SHRI RAMNATH THAKUR)

(a) to (c): Government of India is also promoting the use of bio-fertilizers which are effective and eco-friendly source of nutrient and considered as an important component of organic farming and Integrated Nutrient Management.

Government is promoting organic farming using bio-fertilizers through the schemes of Paramparagat Krishi Vikas Yojana (PKVY) in all the States other-than North Eastern States and Mission Organic Value Chain Development for North Eastern Region (MOVCDNER) exclusively in the NE States. Both the schemes stress on end-to-end support to farmers engaged in organic farming i.e. from production to processing, certification and marketing and post-harvest management Training and Capacity Building are integral part of the scheme.

Under the PKVY scheme, farmers are provided financial assistance of Rs 15000/ ha for 3 years through DBT for on-farm and off-farm organic inputs including organic manure.

Whereas, under MOVCDNER scheme, farmers are directly provided financial assistance of Rs. 32500/ ha for 3 years to farmers for off -farm /on -farm organic inputs under the scheme out of which Rs. 15,000 through DBT for on-farm and off-farm organic inputs including organic manure and Rs. 17,500 for the planting material to be given to the farmers by State Lead Agency (SLA) in kind.

In order to ensure the availability of good quality organic-fertilizers, the Government of India regulates its quality under the Fertilizer Control Order (1985). Standards have been specified which are required to be adhered mandatorily by the manufacturers. Government of India has notified 32 quality testing laboratories and initiated steps to accredit its laboratories under NABL to strengthen quality control activities.

The Government of India is not granting assistance for distribution of bio-fertilizer. However, under the Soil Health & Fertility component of RKVY, bio-fertilizers are promoted through provisions of financial assistance for strengthening of infrastructure for production and quality control. The scheme is proposal driven and assistance is granted on the basis of proposals submitted by states for setting up Bio-fertilizers Unit and Bio/Organic fertilizer Quality Control lab.

The State-wise consolidated financial assistance given since 2014-15 for establishment of Bio-fertilizers Unit and Bio/Organic fertilizer Quality Control lab in the country under Soil Health & Fertility of RKVY is given at **Annexure-I**.

Government of India has approved the “PM Programme for Restoration, Awareness, Nourishment and Amelioration of Mother Earth (PM-PRANAM)”, which aims to complement the efforts initiated by States/UTs to save the health of Mother Earth by promoting sustainable and balanced use of fertilizers, adopting alternate fertilizers, promoting organic farming and implementing resource conservation technologies. Under the scheme, 50% of the fertilizer subsidy saved by a State/UT in a particular financial year by way of reduction in consumption of chemical fertilizers (Urea, DAP, NPK, MOP) compared to previous 3 years’ average consumption, will be passed on to that State/UT as Grant.

Under Mission Life programme, Government is taking up various environment initiatives to encourage natural and organic farming using organic and bio-fertilizer to reduce carbon foot print, reduced emission of Green House Gas (GHG) through reduction of chemical fertilizers and pesticides.

Indian Council of Agricultural Research (ICAR) has developed efficient strains of bio-fertilizers specific to different crops and soil types to reduce the use of chemical fertilizers in agricultural production. When these bio-fertilizers are applied along with compost @ 5tonne/ha or vermi-compost @ 4tonne/ha, fertilizer saving is estimated to be upto 50%. Therefore, ICAR recommends integrated use of fertilizers and manures. Bio-fertilizers, both liquid and powdered form have been developed and promoted under All India Network Project on Soil Biodiversity. Bio-fertilizers for Phosphorus solubilization, Nitrogen fixation, Potassium and Zinc solubilization suitable for different crops across the country are developed and many of them are commercialized. The ICAR also imparts training on use of bio-fertilizers, organizes front-line demonstrations, awareness programs etc. to educate farmers on all these aspects. In addition, Krishi Vigyan Kendra (KVK) produced 26110.69 quintals vermicompost and are also making, promoting and distributed organic and bio-fertilizers to the farmers during 2023-24.

National Center of Organic and Natural Farming (NCONF) and its Regional Center of Organic and Natural Farming located at Ghaziabad, Nagpur, Bangalore, Imphal and Bhubaneswar are organizing various HRD trainings namely One Day Farmers’ Training, Two Days Training for Extension Officers/Staff, Two Days Training on PGS, 30 Days Certificate course, One day Jaivik evam Prakratik Kisan Sammelan, One Day Stakeholder consultations/ conferences on Natural Farming, Orientation Program on Natural Farming and awareness programmes across the country to disseminate information on organic and natural farming as well as on- farm production and use of various kinds of organic and bio-

fertilizers. NCONF and RCONF also organize online awareness campaign and training programmes on organic and natural farming and production and use of organic and bio-fertilizers. State wise production of Bio Fertilizers is enclosed at **Annexure II**.

To encourage farmers to use the bio-fertilizers, Government has taken various initiatives such as:

- i. The integrated use of bio-fertilizer, organic fertilizer and organic manure has been made integral part of package of practices developed by ICAR and State Agriculture Universities.
- ii. ICAR has developed liquid bio-fertilizer technology with higher shelf –life and also developed improved strains of bio-fertilizers specific to different crops and soil types.

Annexure – I

State-wise consolidated financial assistance given since 2014-15 for establishment of Bio-fertilizers Unit and Bio/Organic fertilizer Quality Control lab in the country under Soil Health & Fertility of RKVY

(Rs. in lakh)

S. No	State	Financial Assistance provided for Bio-fertilizer Production Units	Financial Assistance provided for Bio/ Organic-fertilizer Quality Control Lab
1	Arunachal Pradesh	36.00	19.13
2	Assam	23.43	89.25
3	Chhattisgarh	48.00	76.50
4	Haryana	92.16	-
5	Meghalaya	108.00	-
6	Nagaland	504.00	95.63
7	Sikkim	144.00	76.50
8	Tamil Nadu	144.00	76.50
9	Telangana	144.00	76.50
10	Tripura	108.00	-
11	Uttar Pradesh	160.00	-
12	Andhra Pradesh	-	76.50
13	Gujarat	-	38.25
14	J & K	-	76.50
15	Jharkhand	-	38.25
16	Puducherry	-	50.00
17	Punjab	-	11.25
18	West Bengal	-	63.75
	Total	1511.59	864.51

Annexure- II

State-wise bio-fertilizer Production Statistics since 2014 till 2022-23

State	2014-15		2015-16		2016-17		2017-18		2018-19		2019-20		2020-21		2021-22		2022-23	
	Carrier (MT)	Liquid (KL)	Carrier (MT)	Liquid (KL)	Carrier (MT)	Liquid (KL)	Carrier (MT)	Liquid (KL)	Carrier (MT)	Liquid (KL)	Carrier (MT)	Liquid (KL)	Carrier (MT)	Liquid (KL)	Carrier based (in metric tonnes)	Liquid Based (in KL)	Carrier based (in metric tonnes)	Liquid Based (in KL)
Andhra Pradesh	2668.8	274.86	3062.6	317.811	3375.91	365.24	4983.6	369.75	263.88	0	228.27	0	123.19	98.49	353.87	62.61	104.988	40.67
Karnataka	16462.62	23.06	23042.91	488.142	31553.06	993.44	34493	1352.8	3253.7	758.19	3606.72	1218	1446.5	870.53	1510.61	1368.3	1456.87	1691.51
Kerala	4916.97	10.51	4926.045	56.5751	4993.87	59.614	6040.1	82.85	108.24	2.098	91.029	5512.1	164.98	2612	127.19	660.6	57.1837	0.07355
Puducherry	560.95	1.4976	283.641	4.088	203.97	11.197	297.58	28.37	121.9	6.192	121.9	7.57	97.17	2.16	90.15	5.66	90.041	8.338
Tamilnadu	15373.29	11.301	23721.21	861.953	27427.96	875.29	28059.	46.18	4187.24	536.784	11611	1481.5	88652.4	434.31	0	1108.8	133205	1209.44
Telangana	0	0	0	0	0	0	574.15	236.09	2556.29	12711.7	1536.33	174.75	448.72	150.14	290.31	105	3453.20	5195.06
Chattisgarh	1024.68	9.62	954.371	9.38	955.07	10.23	969.07	16.63	172.029	133.74	26.77	189.64	558.88	268.68	9.78	103.45	373.73	212.328
Gujarat	3667.929	2800.5	3963.42	2873.31	3909.82	2857.7	4248.1	3519.2	10596	430.529	20788	9444	19483.3	8055.7	24772.1	8030.3	67227.3	112040.
Goa	802.52	0	820.52	0	822	0	838.74	0	2044	0	50	0	30	0	124.26	0	296.798	0
Madhya Pradesh	2637.99	119.21	2741.307	131.033	5609.01	238.10	6561.5	290.4	7426.51	327.193	1330.00	315.64	21834.3	15811.	6584.79	84200	6635.59	18339.7
Maharashtra	14847.39	324.76	7825.142	389.665	8323.62	398.33	10024.	427.4	15049.7	4193.78	15897	237.14	5328.18	2140.9	7452.94	4680.8	7820.1	51
Rajasthan	599.898	0	680	0	711	0	791.81	1.12	791.81	1.12	2142.78	0	10612	0	0	0	0	0
Delhi	104.5	0	106.2	0	116.2	0	119.72	0	394	0	345	0	0	0	173	0	0	0
Haryana	872.955	46.489	1097.457	58.032	2360.64	70.148	2504.6	76	2128.7	246.54	2794.77	0	3105.42	113.17	99809.6	108982	61727.4	1748.59
Himachal Pradesh	0.768	33.07	2.712	190.05	3.28	194.7	8.48	209.7	135.112	12.05	320	137.9	0.22	0.22	120.45	137	46.274	34.3
Jammu & Kashmir	0	0	0	0	0	0	0	0.04	0	0.04	0	0	0	0	0.55	3.3	0.275	2.885
Punjab	6305.453	74.278	2197.197	149.581	5533.77	210.17	5645.2	236.09	7167.38	220.785	9252.19	192.49	16042.2	361.37	3063.7	85.7	416.9	2367.8
Uttar Pradesh	4099.068	98.036	3053.115	223.34	2835.79	696.9	3441.3	743.95	2451.8	2444.55	2142.78	2539.8	0	5725.6	132.11	0	22663.4	0
Uttarakhand	2129.952	208.03	3549.39	428.22	3720.68	461.19	3942.0	0	3359.79	281.406	3118.98	4980	3708.83	1150.8	3476.03	566.84	3447	646.25
Bihar	64.9	0	97	0	107	0	128.76	0.02	130.83	0	375	1900	74.59	2.11	6545.66	0	1144.43	867.104
Jharkhand	9.08	0	9.172	0	18.552	-	20.96	0.01	20.96	0	5.15	0	0	0	0	0	0	0

State	2014-15		2015-16		2016-17		2017-18		2018-19		2019-20		2020-21		2021-22		2022-23	
	Carrier (MT)	Liquid (KL)	Carrier (MT)	Liquid (KL)	Carrier (MT)	Liquid (KL)	Carrier (MT)	Liquid (KL)	Carrier (MT)	Liquid (KL)	Carrier (MT)	Liquid (KL)	Carrier (MT)	Liquid (KL)	Carrier based (in metric tonnes)	Liquid Based (in KL)	Carrier based (in metric tonnes)	Liquid Based (in KL)
Odisha	1074.46	4.7	467.634	13.701	516.28	31.79	560.2	46.18	8166.89	149.692	449.2	1719	19406.64	859.6	13367.97	200.82	319.53	77.597
West Bengal	2061.83	14.63	2826.27	23.537	3195.18	26.21	3513.07	37.74	2050	37.74	2200	0	448.59	33.54	703	12.48	1034.113	6.74135
Arunachal Pradesh	59	0	118	0	119.7	0	232.9	0.11	0	0	0	0	0	0	0	0	0	0
Assam	88	0.000	1315	22.5	1359.05	26	1742.62	33.1	617.2	0	640.33	4.9	438.54	3447.35	524.85	22582	427.16	13645
Manipur	0	0	0	0	25	0	23.94	0	81.5	100	13.2	11.51	20	24.01	22.1	24.74	0	0
Mizoram	3.6	0	4.2	0	2.5	0	8.99	0	2.5	0	1.4	0	1.4	0	0.9	0	0	0
Nagaland	7.45	0	8.81	0	51.45	0	70.62	0	17.452	0	18.75	0	19.14	0	6.04	0	0	0
Sikkim	12.4	0	12.91	0	16.25	0	33.15	0	0	51.5	0	0	0	69.02	0	11.31	0	0
Tripura	240	0	1143.07	0	1153.5	0	1187.88	1.12	81.79	0	340.06	39.78	283.99	9.02	117.04	2.32	1387.7	166.76
