

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

LOK SABHA
UNSTARRED QUESTION NO. 413
TO BE ANSWERED ON THE 30TH NOVEMBER, 2021

PESTICIDES AND BIO FERTILIZERS

413. SHRI ADHIKARI DEEPAK (DEV):
SHRI KANUMURU RAGHU RAMA KRISHNA RAJU:

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

- (a) whether the Government proposes to promote the use of bio-fertilizers and pesticides in the agriculture, if so, the details thereof;
- (b) the details about volumunous increase in using the bio-fertilizers and pesticides during the last three years;
- (c) the course of action chalked out by the Government to augment the use of bio-fertilizers and pesticides in the country;
- (d) the steps taken/ being taken to curtail the use of chemicals and promote the use of bio-fertilizers;
- (e) the details of steps taken by the Government to enable farmers to access bio fertilizers and pesticides locally and easily; and
- (f) whether the Government propose to stop use of chemical pesticides and if so, the steps to be taken in this regard?

ANSWER

MINISTER OF AGRICULTURE AND FARMERS WELFARE

कृषि एवं किसान कल्याण मंत्री (SHRI NARENDRA SINGH TOMAR)

(a) to (f) Government is promoting the use of bio-fertilizers under organic farming in the country through dedicated schemes namely Paramparagat Krishi Vikas Yojana (PKVY) and Mission Organic Value Chain Development for North Eastern Region (MOVCDNER) since 2015-16. Bio-fertilizers are also promoted through Integrated Nutrient Management (INM) and are made integral part of package of practices developed by Indian Council of Agricultural Research (ICAR) and State Agriculture Universities.

Indian Council of Agricultural Research (ICAR)/Krishi Vigyan Kendras (KVKs) also conduct training to farmers on Integrated Nutrient Management (INM) and Integrated Pest Management (IPM) practices to promote balanced use of fertilizers and pesticides.

The volume of consumption of bio-fertilizers and pesticides during last three years is given at **Annexure I and II**.

Under Capital Investment Subsidy Scheme (CISS), credit linked back ended subsidy @ 25% of total cost with maximum limit of Rs 40 lakhs is provided through National Bank for Agricultural and Rural Development (NABARD) for establishment of Bio-fertilizer/ Bio-pesticide production unit [200 Ton Per Annum(TPA) capacity]. Under Soil Health Management (SHM), assistance upto Rs 160 lakh /unit (200MT capacity) is provided to State Governments for establishment of bio-fertilizer production unit on 60:40 sharing between GoI and State Government.

To minimize use of chemical pesticides Government is promoting organic farming under the Schemes PKVY & MOVCDNER and also promoting the use of bio/ organic fertilizer under various schemes in the country are given at **Annexure III**.

Government is also promoting Natural farming through Bhartiya Prakritik Krishi Padhati (BPKP) as a sub scheme of Paramparagat Krishi Vikas Yojana (PKVY) since 2020-21 by supporting traditional indigenous practices. The scheme mainly emphasizes on exclusion of all synthetic chemical inputs and promotes on-farm biomass recycling with major stress on biomass mulching, use of cow dung-urine formulations, plant-based preparations. Under BPKP, financial assistance of Rs 12200/ha for 3 years is provided for cluster formation, capacity building and continuous handholding by trained personnel, certification and residue analysis.

Government is also implementing the 'Sub-Mission on Plant Protection and Plant Quarantine' through 35 Central Integrated Pest Management Centers located in 28 States and 2 UTs with a mandate to popularize adoption of Integrated Pest Management (IPM) through training and demonstration in crops, inter-alia promotion of biological control approaches in crop protection technology with major emphasis on judicious use of chemical pesticide as a last resort, safety in use of pesticides, alternate tools for pest management viz; cultural, physical, mechanical methods of pest control as well as use of bio-pesticides and bio-control agents. During 2019-20 and 2020-21, a total of 33757 and 45364 Farmer Field Schools have been conducted in various States respectively.

STATE-WISE CONSUMPTION OF BIOFERTILISERS DURING 2018-19 TO 2020-21

Sl. No.	State	2018-19		2019-20		2020-21	
		Carrier based (MT)	Liquid based (KL)	Carrier based (MT)	Liquid based (KL)	Carrier based (MT)	Liquid based (KL)
South Zone							
1	Andhra Pradesh	263.88	-	228.27	-	180.95	-
2	Karnataka	3253.7	758.19	3606.72	1218.00	1866.40	-
3	Kerala	108.24	2,098	91.03	5512.14	96.80	1235
4	Puducherry	121.9	6,192	121.90	7.57	75.90	-
5	Tamil Nadu	4187.243	536.784	11611.00	1481.59	64384.00	1109.12
6	Telangana	2556.29	12711.74	1536.33	174.75	320.00	-
West Zone							
1	Chhattisgarh	172.029	133.74	26.77	189.64	55.62	182.7
2	Gujarat	10596	430.529	20788.00	9444.00	19108.0	-
3	Goa	2044	-	50.00	-	30.00	-
4	Madhya Pradesh	7426.517	327.193	1330.01	315.64	1747.71	-
5	Maharashtra	15049.75	4193.78	15897.00	237.14	15591.00	-
6	Rajasthan	791.81	1.12	2142.78	-	1570.00	-
North Zone							
1	Delhi	394	-	345.00	-	347.00	-
2	Haryana	2128.7	246.54	2794.77	-	8517.00	-
3	Himachal Pradesh	135.112	12.05	320.00	137.90	200.00	-
4	Jammu & Kashmir	-	0.04	-	-	-	-
5	Punjab	7167.384	220.785	9252.19	192.49	-	-
6	Uttar Pradesh	2451.8	2444.55	2142.78	2539.89	13724.00	-
7	Uttarakhand	3359.79	281.406	3118.98	4980.00	2691.77	605.30
East Zone							
1	Bihar	130.83	-	375.00	1900.00	161.67	-
2	Jharkhand	20.96	-	5.15	-	14.55	-
3	Odisha	8166.89	149.692	449.20	1719.00	1404.70	-
4	West Bengal	2050	37.74	2200.00	-	2235.00	-
North East Zone							
1	Arunachal Pradesh	0	0	-	-	-	-
2	Assam	617.197	-	640.33	4.90	-	-
3	Manipur	81.5	100	13.20	11.51	-	-
4	Mizoram	2.5	-	1.40	-	0.5	-
5	Nagaland	17.452	-	18.75	-	-	-
6	Sikkim	-	51.5	-	-	-	-
7	Tripura	81.79	-	340.06	39.78	-	-
	Total	73377.264	22645.669	79446.61	30105.94	134322.6	3132.12

Source: States/UTs

Annexure- II

STATE/ UTS -WISE CONSUMPTION OF CHEMICAL PESTICIDES IN VARIOUS STATES DURING 2018-19 TO 2020-21 (As on 31.03.2021)

Unit: MT Tech. Grade

S. No.	States/UTs	2018-19	2019-20	2020-21
1	Andhra Pradesh	1689.00	1558.63	1558.63
2	Bihar	850.00	850.00	995.00
3	Chhattisgarh	1770.00	1672.00	1639.00
4	Goa	25.33	30.00	30.22
5	Gujarat	1608.00	1784.00	1573.00
6	Haryana	4015.00	4200.00	4050.00
7	Himachal Pradesh	322.40	881.20	56.39
8	Jharkhand	646.40	681.00	1161.00
9	Karnataka	1524.00	1568.00	1930.00
10	Kerala	994.72	656.40	585.27
11	Madhya Pradesh	540.00	540.00	691.00
12	Maharashtra	11746.00	12783.00	13243.00
13	Orissa	1609.00	1115.00	1158.41
14	Punjab	5543.00	4995.00	5193.00
15	Rajasthan	2290.00	2088.00	2330.00
16	Tamil Nadu	1901.00	2225.00	1834.00
17	Telangana	4894.00	4915.00	4986.00
18	Uttar Pradesh	11049.00	12217.00	11557.00
19	Uttarakhand	195.28	223.77	135.48
20	West Bengal	3190.02	3630.02	3629.80
Sub Total		56402.15	58613.02	58336.21
North-Eastern				
21	Arunachal Pradesh	4.60	4.95	1.95
22	Assam	256.05	410.39	419.50
23	Manipur	NR	25.10	45.55
24	Mizoram	26.01	27.44	NR
25	Nagaland	21.00	19.00	36.00
26	Tripura	349.12	364.00	NR
Sub Total		656.78	850.88	503.00
Union Territories				
27	Andaman & Nicobar	NR	NR	1.42
28	Delhi	110.00	NR	NR
29	Jammu & Kashmir	2458.69	2198.00	3352.00
30	Pondicherry	42.31	40.00	NR
Sub Total		2611.00	2238.00	3353.42
Grand Total		59669.93	61701.90	62192.63

Source: States/UTs .

Steps taken by government for promotion of bio/organic fertilizers through various schemes.

- **Soil Health Management (SHM):** Government is providing Rs 160 lakh /unit for establishment of bio-fertilizer production unit (200MT capacity) to State Government which is shared on 60:40 ratios between Gol and State Government. 15 bio-fertilizer production units have been established under SHM
- **National Mission on Oilseeds and Oil Palm (NMOOP):** Financial assistance@ 50% subsidy to the tune of Rs. 300/- per ha is being provided for different components including bio-fertilizers, 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 Rs.300 per ha.
- Based on ICAR recommendation Government is promoting soil test based balanced and integrated nutrient management through conjunctive use of both inorganic and organic sources (manure, bio-fertilizers etc.) of plant nutrients to improve soil health and fertility.
