

GOVERNMENT OF INDIA
MINISTRY OF CHEMICALS AND FERTILIZERS
DEPARTMENT OF FERTILIZERS

LOK SABHA

UNSTARRED QUESTION NO. 5754+ TO BE ANSWERED ON: 03.04.2018

Natural Fertilizers

5754+ SHRI LAKHAN LAL SAHU:

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

- (a) whether there has been an increase in the use of natural fertilizers in the country during each of the last three years and the current year and if so, the details thereof;
- (b) the outcome as a result thereof in improving the health condition of the people;
- (c) whether the Government purposes to take any action to reduce the use of chemical fertilizers in the country;
- (d) if so, the details thereof, and
- (e) if not, the reasons thereof?

ANSWER

MINISTER OF STATE (INDEPENDENT CHARGE) FOR THE MINISTRY OF PLANNING AND
MINISTER OF STATE IN THE MINISTRY OF CHEMICALS & FERTILIZERS

(RAOINDERJEET SINGH)

(a) : The use of bio-fertilizers and organic fertilizers has increased. The details of production of bio-fertilizer during the year 2014-15, 2015-16 and 2016-17 is enclosed at **Annexure I**. The details of production and availability of organic fertilizer during the year 2014-15, 2015-16 and 2016-17 is given at **Annexure-II**.

(b) : The outcome as a result aims for sustainable agriculture production with eco-friendly process in tune with nature and to produce chemical free agricultural produce to improve the health condition of farmers

(c) to (e) : Government has launched the schemes "Parampragat Krishi Vikas Yojana" (PKVY) and "Mission Organic Value Chain Development for North Eastern Region (MOVCDNER) to produce chemical free agricultural produce to improve the health condition of farmers. The detail of the schemes, amount released under these schemes is given at **Annexure III**.

State wise – Wise Bio-Fertilizer Production in India (Last 3 years)

SI N.	State	2014-15		2015-16		2016-17	
		Carrier based (MT)	Liquid based (KL)	Carrier based (MT)	Liquid based (KL)	Carrier based (MT)	Liquid based (KL)
South Zone							
1	A & N Islands	0.0000	0.0000	0	0	0	0
2	Andhra	2668.8000	274.8560	3062.6	317.811	3375.91	365.24
3	Daman & Diu	0.0000	0.0000	0	0	0	0
4	Karnataka	16462.6200	23.0561	23042.91	488.142	31553.06	993.443
5	Kerala	4916.9700	10.5096	4926.045	56.5751	4993.8692	59.6143
6	Lakshadweep	0.0000	0.0000	0	0	0	0
7	Pondicherry	560.9500	1.4976	283.641	4.088	203.966	11.197
8	Tamil Nadu	15373.2900	11.3017	23721.2104	861.9535	27427.962	875.292
	Total	39982.6300	321.2210	55036.41	1728.57	67554.7672	2304.7863
West Zone							
1	Chhattisgarh	1024.680	9.620	954.371	9.38	955.074	10.23
2	Gujarat	3667.929	2800.500	3963.42	2873.317	3909.82	2857.77
3	Goa	802.520	0.000	820.52	0	822	0
4	Madhya	2637.990	119.216	2741.30775	131.033	5609.006	238.103
5	Maharashtra	14847.397	324.767	7825.142	389.665	8323.616	398.33
6	Rajasthan	599.898	0.000	680	0	711	0
7	D & N Haveli	0.000	0.000	0	0	0	0
	Total	23580.414	3254.103	16984.76	3403.395	20330.516	3504.433
North Zone							
1	Delhi	104.500	0.000	106.2	0	116.2	0
2	Chandigarh	0.000	0.000	0	0	0	0
3	Haryana	872.955	46.489	1097.457	58.032	2360.644	70.148
4	H.P.	0.768	33.070	2.712	190.05	3.276	194.7
5	J & Kashmir	0.000	0.000	0	0	0	0
6	Punjab	6305.453	74.278	2197.197	149.581	5533.774	210.177
7	Uttar Pradesh	4099.068	98.036	3053.115	223.34	2835.79	461.19
8	Uttarakhand	2129.952	208.034	3549.39	428.22	3720.68	696.9
	Total	13512.696	459.907	10006.07	1049.223	14570.364	1633.115
East Zone							
1	Bihar	64.90	0.00	97	0	107	0
2	Jharkhand	9.08	0.00	9.172	0	18.552	0
3	Odisha	1074.46	4.70	467.634	13.701	516.281	31.79
4	West Bengal	2061.83	14.63	2826.27	23.537	3195.18	26.21
	Total	3210.27	19.33	3400.076	37.238	3837.013	58
North East Zone							
1	Arunachal	59	0	3062.6	317.811	119.7	0
2	Assam	88.000	0.000	1315	22.5	1359.05	26
3	Manipur	0.000	0.000	0	0	25	0
4	Meghalaya	0.000	0.000	0	0	0	0
5	Mizoram	3.600	0.000	4.2	0	2.5	0
6	Nagaland	7.450	0.000	8.81	0	51.45	0
7	Sikkim	12.400	0.000	12.91	0	16.25	0
8	Tripura	240.000	0.000	1143.07	0	1153.5	0
	Total	410.450	0.000	5546.59	340.311	2727.45	26
Grand Total		80696.45595	4054.563711	88029.30415	6240.926	109020.1102	7526.3343

Production and availability of Organic fertilizer in last 3 years

Source: Compiled by NCOF (Data Provided by Production Units/State Government)

(a) During 2014-15 (lakh MT)

1/3

State	Rural Compost	FYM	City Compost	Organic manure	Vermi Compost	Other manure	Total Manure
Andhra Pradesh	49.5	0.21	21.3	0	1.02	0	72.03
Arunanchal Pradesh	0.11	0.25	0.00	0.01	0.65	0.06	1.08
Assam	0.92	940	0.03	0	1.75	0	942.70
Bihar	3.83	0	0.29	4.91	3.14	0	12.17
Chhattisgarh	49	45.5	3.25	0.0011	3.5	3	104.25
Delhi	0	0	0.8	0	0	0	0.80
Goa	0.04	0	0.5	0.04	0.03	0.216	0.83
Gujarat	0	361	0	0	0.51	4.195	365.71
Haryana	0	0	0	0.084	0.063	0	0.15
Himachal Pradesh	2	0	0.23	0.0074	26.4	0	28.64
Jammu & Kashmir	1.761	0.00	0.19	0	0	0	1.95
Jharkhand	0	0	0	0	511	0	511.00
Karnataka	0	0	10.32	0	6.1	0	16.42
Kerala	0	1.11	1.86	0	0.88	0	3.85
Madhya Pradesh	5.85	0.01	0.059	0	0	0.135	6.05
Maharashtra	0	0	5.5	0	1.42	3.126	10.05
Manipur	0	0.65	0.00	0	0.05	0	0.70
Mizoram	0	0.06	0	0	0.06	0	0.12
Meghalaya	0	17.00	0.00	0	0	0	17.00
Nagaland	0.035	0.84	0	0	0.05	0	0.93
Odisha	23.27	0	0.07	0	0	0	23.34
Punjab	0	2.96	0	0.0064	0.329	0.031	3.33
Pondicherry	0	0	3.23	0	0	0	3.23
Rajasthan	0	0	0	0.015	0	0.007	0.02
Sikkim	0.32	0	0	0	0.03	0	0.35
Tamil nadu	0	0	6.38	5.042	0	0	11.42
Tripura	0	0	0	0	0	0	0.00
Uttar Pradesh	0	0	0	0	0.105	0	0.11
Uttarakhand	9.4	13.6	0	0	0.2961	0	23.30
West Bengal	79.84	17.2	10.21	0.07	25.8119	3.986	137.12
Grand Total	225.88	1400.39	64.22	10.186	583.20	14.756	2298.62

(b) During 2015-16 (lakh MT)

State	Rural Compost	FYM	City Compost	Organic manure	Vermi Compost	Other manure	Total Manure
Andhra Pradesh	62.00	0.35	22.10	0	1.52	0	85.97
Arunanchal Pradesh	0.70	0.21	0	0.01	0.62	0.06	1.60
Assam	0	841.00	0	0	93.10	1.56	935.66
Bihar	10.32	8.50	0.32	5.01	9.12	0	33.27
Chhattisgarh	11.05	42.51	11.23	0	3.02	53.09	120.90
Chandigarh	8.30	6.95	0	0	0	0	15.25
Delhi	0	0	0	0	0	1.10	1.10
Goa	0.04	0	0.50	0.04	0.03	0.21	0.82
Gujarat	0	375.00	0	0	0.78	4.90	380.68
Haryana	10.20	8.60	0	2.18	0.20	0.01	21.19
Himachal Pradesh	0	0	0	15.00	25.10	14.00	54.10
Jammu & Kashmir	1.90	0	0.23	0	0	0	2.13
Jharkhand	0	104.90	0	0	396.00	0	500.90
Karnatka	5.90	6.30	6.55	2.72	19.14	0.16	40.77
Kerala	0.72	0	0.68	0	3.25	0.01	4.66
Madhya Pradesh	26.38	15.17	1.03	0.91	10.10	1.26	54.84
Maharashtra	10.36	6.58	7.50	0	2.50	4.00	30.94
Manipur	0	0.72	0	0	0.09	0	0.81
Mizoram	0	1.12	0	0	1.06	0	2.18
Meghalaya	0	19.00	0	0	9.00	0	28.00
Nagaland	0.42	1.30	0	0	1.21	0	2.93
Odisha	10.60	0	8.42	0.22	6.17	0	25.41
Punjab	0	0	0.19	0.83	0.34	7.53	8.90
Pondicherry	0	0	3.12	0	0	1.43	4.55
Rajasthan	21.92	12.20	0	0.01	0	0.01	34.14
Sikkim	0.34	0	0	0	0.05	0	0.39
Tamil nadu	4.05	0	9.29	0	5.78	1.30	20.42
Telangana	3.20	0	0	0	0	0	3.20
Tripura	2.60	0	0	0	0.91	0	3.51
Uttar Pradesh	10.60	14.60	0	0	0.50	0	25.70
Uttarkhand	25.30	19.50	0	0	0.23	0	45.03
West Bengal	8.50	29.99	8.30	4.20	1.95	4.99	57.93
Grand Total	235.40	1514.50	79.46	31.13	591.77	95.62	2547.88

(c) During 2016-17(lakh MT)

State	Rural Compost	FYM	City Compost	Organic manure	Vermi Compost	PROM	Other manure	Total Manure
Andhra Pradesh	68.10	0.39	25.90	0	1.54	0	0	95.93
Arunanchal Pradesh	0.91	0.25	0	0.05	0.66	0	0.07	1.94
Assam	0	90.56	0	0	93.60	0	2.12	186.28
Bihar	12.30	910.00	0.38	7.69	9.14	0.09	0	939.60
Chhattisgarh	12.10	43.10	16.90		3.11		55.40	130.61
Chandigarh	8.50	7.95	0	0	0	0	0	16.45
Delhi	0	0	0	0	0	0	1.60	1.60
Goa	0.04	0	0.90	0.10	0.03		0.31	1.38
Gujarat	0.10	496.00	0	0	0.77	0.09	5.10	502.06
Haryana	11.00	9.60	0	3.65	0.21	0.08	0.03	24.57
Himachal Pradesh	0.01	0	0	15.00	25.30	0	15.60	55.91
Jammu & Kashmir	1.97	0	0.36	0	0	0	0	2.33
Jharkhand	0	0.06	0	0	398.00	0.07	0	398.13
Karnatka	5.92	8.30	7.90	2.94	19.53	0.06	0.21	44.86
Kerala	0.77	0	0.84	0	3.41	0	0.01	5.03
Madhya Pradesh	26.50	19.60	1.56	1.95	11.00	0.04	1.28	61.93
Maharashtra	10.40	8.90	8.90	0	2.80	0.04	5.20	36.24
Manipur	0	0.94	0	0	0.09	0	0	1.03
Mizoram	0	1.29	0	0	1.11	0	0	2.40
Meghalaya	0	21.60	0	0	9.60	0	0	31.20
Nagaland	0.51	1.90	0	0	1.22	0	0	3.63
Odisha	11.30	0	9.60	0.68	6.17	0	0	27.75
Punjab	0	0	1.56	1.00	0.35	0	7.60	10.51
Pondicherry	0	0	5.66	0	0	0	2.11	7.77
Rajasthan	22.10	14.90	0	0.21	0	0.04	0.01	37.26
Sikkim	0.35	0	0	0	0.07	0.03	0	0.45
Tamil nadu	0.06	0	10.26	0.20	5.84	0.03	1.31	17.70
Telangana	3.31	0	0	0.30	0.30	0.03	0	3.94
Tripura	2.64	0	0	0	0.11	0	0	2.75
Uttar Pradesh	10.70	16.80	0	0	0.70	0	0	28.20
Uttarkhand	25.40	25.30	0	0	0.33	0.02	0	51.05
West Bengal	9.10	39.80	9.60	6.70	2.12		5.20	72.52
Grand Total	244.09	1717.24	100.32	40.47	597.11	0.62	103.16	2803.01

Government has launched the schemes “Parampragat Krishi Vikas Yojana” (PKVY) and “Mission Organic value Chain Development for North Eastern Region (MOVCDNER) to increase agriculture production, to reduce the agriculture cost and to increase the income of Farmers. The detail of the schemes, amount released under these schemes is given at below:

Prampargat Krishi Vikas Yojana (PKVY)-

The Parampragat Krishi Vikas Yojana (PKVY) is the first comprehensive scheme launched by the Central Government as a centrally sponsored programme (CSP), where the Central and state Governments share the funding in varying ratio. It is 100% in UT, 90:10 in North-Eastern and Hilly States and 60:40 in case of other States. The scheme is implemented by the State Governments. It is implemented on a cluster basis of 20 hectare each. The farmer within the cluster is given financial assistance upto a maximum of 1 ha and the limit of assistance is Rs.50,000 per ha during the conversion period of 3 years. The target is to promote 10,000 clusters covering 2 lakh ha over the period of 3 years, 2015-16 to 2017-18. In order to implement the PKVY in the 2015-16, 2016-17 and 2017-18 an amount of Rs 300 crore, Rs 297 crore and Rs 350 crore has been allocated respectively to the States. In order to implement the PKVY in the year 2015-16, 2016-17 and 2017-18 an amount of Rs. 226.19 crore, 152.19 and Rs 156.33 crore has been released respectively to the States.

Mission Organic Value Chain Development for North Eastern Region –

- Realizing the potential of organic farming in the North Eastern Region of the country, Ministry of Agriculture and Farmers Welfare has launched a Central Sector Scheme entitled “Mission Organic Value Chain Development for North Eastern Region” for implementation in the states of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura, during 2015-16 to 2017-18. The scheme aims at development of certified organic production in a value chain mode to link growers with consumers and to support the development of entire value chain starting from inputs, seeds, certification and creation of facilities for collection, aggregation, processing, marketing and brand building initiative. The scheme was approved with an outlay of Rs. 400 crore for three years.

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 50,000 ha have been targeted to be covered under organic farming in North Eastern Region of the country during the period of three years i.e. from year 2015-16 to 2017-18.

In order to implement the MOVCDNER in the year 2015-16, 2016-17 and 2017-18 an amount of Rs. 112.11 crore, Rs 47.63 crore and Rs 61.31 crore has been released respectively to the North Eastern States.
