

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

LOK SABHA
UNSTARRED QUESTION NO.6145
TO BE ANSWERED ON THE 11TH APRIL, 2017

ORGANIC FERTILIZER FROM FRUITS AND VEGETABLES WASTAGE

6145. SHRI CHANDRAKANT KHAIRE:
SHRI RAMDAS C. TADAS:

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

- (a) whether the organic fertilizer can be made from the agriculture waste, rotten and useless fruits and vegetables and animals wastes in the country on the lines of other countries;
- (b) if so, the response of the Government thereto;
- (c) the steps taken by the Government in this regard till date and the quantum of organic fertilizers produced during the last three years; and
- (d) the details of the success achieved by the Government, so far in this regard?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND FARMERS WELFARE

कृषि एवं किसान कल्याण मंत्रालय में राज्य मंत्री (SHRI PARSHOTTAM RUPALA)

(a) & (b): Yes, Madam. Under the Soil Health Management (SHM) component of National Mission of Sustainable Agriculture (NMSA), Government is encouraging the establishment of fruit/vegetable market/agro waste compost production unit (3000 Ton Per Annum (TPA) capacity), under Capital Investment Subsidy Scheme (CISS) through National Bank for Agriculture and Rural Development (NABARD). The financial assistance is provided @33% for farmers/individual/private agencies including the youth of total financial outlay (TFO) limited to Rs.63 lakh, whichever is less. The details of funds released as subsidy to various states for setting up of fruit/vegetable market waste compost production unit is given in **Annexure- I**.

(c) & (d): Government is promoting the use of Organic manures/fertilizer under the schemes Paramparagat Krishi Vikas Yojana (PKVY) and Soil Health Management to enhance the traditional agriculture. The details are given below:

(i) Financial assistance is provided under the component Integrated Manure Management of PKVY for Phosphate Rich Organic Manure (PROM) @ Rs.1000/acre for procuring and application of PROM to soil to meet phosphorus/Zinc deficiency in soil.

(ii) Financial Assistance is provided for vermi-compost (size 7'x3'x1') @Rs.5, 000/- unit.

(iii) Assistance is provided for Vermi-compost, Bio-fertilizers (Liquid / solid), Waste compost, Herbal extracts etc. including PROM @ 50 % of cost subject to a limit of Rs. 5000/- per ha and maximum Rs.10,000 per beneficiary.

(iv) Government is also providing assistance to production of organic manures by providing 100% financial assistance to State Governments/ Government Agencies upto a maximum limit of Rs.190.00 lakh per unit and 33% of project cost maximum limited to Rs.63 lakh per unit 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 capacity.

(v) Under the Rain fed Area Development (RAD) component of NMSA, 50% of cost subject to limit of Rs 125/- per cubic ft. and maximum permissible assistance of Rs.50,000/- per unit for permanent structure and Rs 8,000/- per unit for High Density Polyethylene (HDPE) vermi bed is provided for construction of compost unit and, organic input production unit.

(vi) The Government of India is providing a Market Development Assistance @ Rs.1500/-per metric ton (MT) to Fertilizer Companies for sale of City Compost.

(vii) Indian Council of Agricultural Research (ICAR) has developed technology to prepare various types of organic manures such as phosphocompost, vermincompost, bio-enriched compost, city compost, etc. to promote manures /compost technologies. The State wise details of organic manures produced / available for last three years is given at **Annexure II, II-A and II-B.**

State-wise details of fruits and vegetable compost units supported by NPOF under Credit Linked Back-Ended Subsidy (CISS) scheme through NABARD and subsidy released

S.N.	State	2013-14		2014-15		2015-16	
		Unit	(Rs. Lakh)	Unit	(Rs. Lakh)	Unit	(Rs. Lakh)
1.	Assam	01	15.098	-	-		
2.	Haryana			-	-	01	30.0
3.	Karnataka	03	84.268	-	-		
4.	Madhya Pradesh			-	-	01	19.191
5.	Tamil Nadu			-	-	01	29.97
	Total	04	99.366	0	0	03	79.161

Annexure II

State-wise details of different organic manures produced / available (lakh MT) during the year 2013-14

(lakh MT)

State	Rural Compost	FYM	City Compost	organic manure	Vermi Compost	Other manure	Total Manure	Green manure (Ha.)
Andhra Pradesh	49.5	0.21	21.3	0	1.02	0	72.03	28.54
Arunachal Pradesh	0.09	0.23	0	0	0.61	0.065	0.995	0.06
Assam	0.83	916.5	0.02	0	1.65	0	919.5	2.65
Bihar	3.83	0	0.29	4.91	3.14	0	12.17	362000
Chhattisgarh	49	45.5	3.25	0.0011	3.5	3	104.2511	375000
Delhi	0	0	0.8	0	0	0	0.8	0
Goa	0.04	0	0.5	0.04	0.03	0.21	0.82	3
Gujarat	0	361	0	0	0.51	4.3	365.81	3.2
Haryana	0	0	0.045	0	0.041	0	0.086	0
Himachal Pradesh	2	0	0.23	0	15.42	0	17.65	0.5
Jammu & Kashmir	1.765	0	0.19	4.53	0.084	0	6.569	1080
Jharkhand	0	0	0.02	0	525	0	525.02	0
Karnataka	0	1.37	8.32	0	1.96	0	11.65	0
Kerala	0	1.11	1.86	0	0.88	0	3.85	0
Madhya Pradesh	5.5	0.01	0.05	0	0	0.1	5.66	58000
Maharashtra	0	0	5.5	0	1.46	3	9.96	0.65
Manipur	0	0.61	0	0	0	0	0.61	0
Mizoram	0	0.055	0	0	0.042	0	0.097	0
Meghalaya	0	16.35	0	0	0	0	16.35	0
Nagaland	0.031	0.81	0	0	0.04	0	0.881	0.85
Odisha	23.27	0	0.0283	0	0.33281	0	23.63111	0
Punjab	0	2.98	0.032	0	0.05215	0	3.06415	199000
Pondicherry	0	0	3.23	0	0	0	3.23	0
Rajasthan	0	0	0	0.015	0	0.007	0.022	0
Sikkim	0.32	0	0	0	0.03	0	0.35	0
Tamil nadu	0	2.1	9.11	0	3.18	0	14.39	0
Tripura	0	0	0	0	0	0	0	0
Uttar Pradesh	0	0	0	0	0.222		0.222	238805
Uttarkhand	9.4	13.65	0.35	0	0.17	0	23.57	0.1
West Bengal	79.4	36.8	8.21	0	22.9	4.1	151.41	16.1
Grand Total	224.976	1399.3	63.335	9.496	582.274	14.782	2294.15	1233941

Annexure –II A

State-wise details of different organic manures produced / available (lakh MT) during the year 2014-15

(lakh MT)

State	Rural Compost	FYM	City Compost	organic manure	Vermi Compost	other manure	Total Manure	Green manure (Ha.)
Andhra Pradesh	49.5	0.21	21.3	0	1.02	0	72.03	28.54
Arunachal Pradesh	0.11	0.25	0.00	0.01	0.65	0.06	1.08	0.07
Assam	0.92	940	0.03	0	1.75	0	942.70	2.9
Bihar	3.83	0	0.29	4.91	3.14	0	12.17	362000
Chhattisgarh	49	45.5	3.25	0.0011	3.5	3	104.25	420000
Delhi	0	0	0.8	0	0	0	0.80	0
Goa	0.04	0	0.5	0.04	0.03	0.216	0.83	3
Gujarat	0	361	0	0	0.51	4.195	365.71	3.2
Haryana	0	0	0	0.084	0.063	0	0.15	0
Himachal Pradesh	2	0	0.23	0.0074	26.4	0	28.64	0.5
Jammu & Kashmir	1.761	0.00	0.19	0	0	0	1.95	1080
Jharkhand	0	0	0	0	511	0	511.00	0
Karnataka	0	0	10.32	0	6.1	0	16.42	0
Kerala	0	1.11	1.86	0	0.88	0	3.85	0
Madhya Pradesh	5.85	0.01	0.059	0	0	0.135	6.05	60000
Maharashtra	0	0	5.5	0	1.42	3.126	10.05	0.65
Manipur	0	0.65	0.00	0	0.05	0	0.70	0
Mizoram	0	0.06	0	0	0.06	0	0.12	0
Meghalaya	0	17.00	0.00	0	0	0	17.00	0
Nagaland	0.035	0.84	0	0	0.05	0	0.93	0.9
Odisha	23.27	0	0.07	0	0	0	23.34	0
Punjab	0	2.96	0	0.0064	0.329	0.031	3.33	199000
Pondicherry	0	0	3.23	0	0	0	3.23	0
Rajasthan	0	0	0	0.015	0	0.007	0.02	0
Sikkim	0.32	0	0	0	0.03	0	0.35	0
Tamil nadu	0	0	6.38	5.042	0	0	11.42	0
Tripura	0	0	0	0	0	0	0.00	0
Uttar Pradesh	0	0	0	0	0.105	0	0.11	238805
Uttarkhand	9.4	13.6	0	0	0.2961	0	23.30	0
West Bengal	79.84	17.2	10.21	0.07	25.8119	3.986	137.12	16.1
Grand Total	225.88	1400.39	64.22	10.186	583.20	14.756	2298.62	1280941

Annexure II-B

State-wise details of different organic manures produced / available (lakh MT) during the year 2015-16

(lakh MT)

State	Rural Compost	FYM	City Compost	organic manure	Vermi Compost	other manure	Total Manure	Green manure (Ha.)
Andhra Pradesh	62	0.35	22.1	0	1.52	0	85.97	8.39
Arunachal Pradesh	0.7	0.21	0	0.01	0.62	0.062	1.602	0.1
Assam	0	841	0	0	93.1	1.56	935.66	123
Bihar	10.32	8.5	0.32	5.01	9.12	0	33.27	1.8
Chhattisgarh	11.04917	42.51	11.23	0	3.02	53.0884	97.88217	18.68472
Delhi	0.04	0	0.5	0.04	0.03	0.21	0.82	0.097
Goa	0	375	0	0	0.78	4.9	380.68	62
Gujarat	10.2	8.6	0	2.175985	0.2	0.0106015	2.3886365	0.012
Haryana	0	0	0	15	25.1	14	29	2.92
Himachal Pradesh	1.9	0	0.23	0	0	0	2.13	1.11
Jammu & Kashmir	0	0	0	0	396	0	700	72.1
Jharkhand	5.9	6.3	6.5529578	2.723575	19.13513	0.1587	28.5703628	1.22
Karnataka	0.72	0	0.68	0	3.2515	0.005	4.6565	0.45
Kerala	26.38297	15.165	1.026	0.909	10.096	1.26194	19.84091	0.9
Madhya Pradesh	10.36	6.58	7.5	0	2.5	4	14	1.05
Maharashtra	0	0.72	0	0	0.09	0	0.81	0.08
Manipur	0	19	0	0	9	0	28	2.1
Mizoram	0	1.12	0	0	1.06	0	2.18	0.013
Meghalaya	0.42	1.3	0	0	1.21	0	2.93	0.01
Nagaland	10.6	0	8.42102	0.2154	6.1665	0	25.40292	3.21
Odisha	0	0	0.19229	0.8346	0.34	7.531	8.70198	0.45
Punjab	0.04	0	0.5	0.04	0.03	0.21	0.82	0.097
Pondicherry	0	0	3.1162	0	0	1.434895	4.551095	0.45
Rajasthan	21.92	12.2	0	0.012	0	0.0113	34.1433	0.004
Sikkim	0.34	0	0	0	0.05	0	0.39	0.05
Tamil nadu	0.05	0	9.28915	0	5.784556	1.29863	18.422336	2.21
Tripura	2.6	0	0	0	0.91	0	0.91	0
Uttar Pradesh	10.6	14.6	0	0	0.5	0	25.7	3.31
Uttarkhand	25.3	19.5	0	0	0.23	0	0.23	0.03
West Bengal	8.5	29.99	8.3	4.2	1.95	4.986	57.926	22
Grand Total	219.9421	1402.645	79.95762	31.17056	591.7937	94.72847	2547.588	327.8477
