

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

RAJYA SABHA
UNSTARRED QUESTION NO-1310
TO BE ANSWERED ON THE 02/08/2024
PROMOTION OF MODERN AGRICULTURAL TECHNOLOGIES

1310. SHRI M. MOHAMED ABDULLA:

Will the Minister of Agriculture and Farmers Welfare be pleased to state:

- (a) the steps taken by Government to promote modern agricultural technologies among small farmers, having less than 2 hectares of agricultural land in the country in the last five years; and
- (b) the amount of funds allocated and spent for implementing advanced farming techniques and improving irrigation facilities in the last five years, year-wise?

ANSWER

MINISTER OF STATE FOR AGRICULTURE AND FARMERS WELFARE

(SHRI RAMNATH THAKUR)

(a) & (b): The Government of India supports and facilitates the State Governments for infusing modern and smart farming technologies into the agriculture sector. The use of modern machines including kisan drones is promoted under Sub-Mission on Agricultural Mechanization (SMAM). Under National e-Governance Plan in Agriculture (NeGPA) program, funding is given to State Governments for Digital Agriculture Projects using emerging technologies like Artificial Intelligence, and Machine Learning (AI/ML), Internet of Things (IOT), Blockchain etc. A component called “Innovation and Agri-Entrepreneurship Development” has been launched under Rashtriya Krishi Vikas Yojana (RKVY-RAFTAAR) in 2018-19 with the objective of promoting innovation and Agri-Entrepreneurship by providing financial support and nurturing the incubation ecosystem. Under this programme, start-ups are encouraged to use innovative technologies to resolve challenges faced in agriculture and allied sectors. The funds are released to the States based on their proposals. The details of State-wise funds released under SMAM and achievements so far are given in Annexure-I. Details of projects sanctioned under NeGPA during Financial Year 2019-20 to 2023-24 are given in Annexure-II. State-wise allocation, release and utilization under RKVY are given in Annexure-III.

Department of Agriculture & Farmers Welfare (DA&FW) is implementing Centrally Sponsored Scheme of Per Drop More Crop (PDMC) in the Country from 2015-16. PDMC focuses on enhancing water use efficiency at farm level through Micro Irrigation namely Drip and Sprinkler Irrigation Systems. The PDMC also supports micro level water storage, water

conservation/management activities as Other Interventions (OI) to supplement source creation for Micro Irrigation. During the years 2015-16 to 2021-22, the PDMC was implemented as a component of Pradhan Mantri Krishi Sinchayee Yojana (PMKSY). From the year 2022-23, the PDMC is being implemented under the Rashtriya Krishi Vikas Yojana (RKVY). The Micro-irrigation helps in water saving as well as reduced fertilizer usage through fertigation, labour expenses, other input costs and overall income enhancement of farmers. The Government provides financial assistance @ 55% for small and marginal farmers and @ 45% for other farmers for installation of Drip and Sprinkler systems under the PDMC. The Assistance for installation of Micro-irrigation systems is limited to 5 hectares for a beneficiary. The status of fund release and achievement of the scheme of PDMC is given at Annexure-IV.

Annexure -I

Year-wise funds released and physical progress under SMAM (2014-15 to 2024-25 as on 22.07.2024):

State-wise Release of Funds and Physical Progress under SMAM (2014-15 to 2024-25):-as on 22.07.2024

State	Funds Released (Rs. in Crores)	No. of Demos	Trainees Trained	Machines distributed under subsidy	CHCs established	Hi-tech Hubs Established	Farm Machinery Banks Established
Andhra	808.72	600	1950	251514	7108	62	3428
Arunachal	56.97	1700	2710	39729	7	0	6
Assam	73.17	0	0	1034	8	0	585
Bihar	117.67	0	0	30660	903	2	842
Chhattisgarh	302.31	750	0	100556	2475	0	273
Gujarat	79.45	400	1174	27481	185	19	30
Haryana	266.54	5000	185	24870	1139	65	1109
Himachal	162.24	200	150	42885	14	0	39
J&K	72.54	5630	0	19069	202	0	155
Jharkhand	29.32	0	1250	0	0	0	527
Karnataka	973.86	225	75	292454	129	216	445
Kerala	263.62	504	56	105756	89	0	1546
MP	433.73	10500	310	253889	1576	22	100
Maharashtra	574.18	1250	0	97387	1160	30	192
Manipur	113.14	4752	0	20283	211	0	609
Meghalaya	14.24	200	0	2457	0	0	8
Mizoram	40.62	0	0	5596	0	0	314
Nagaland	218.34	592	586	20894	25	0	511
Odisha	322.24	200	300	58010	1603	12	158
Punjab	102.68	13800	0	12666	250	6	1000
Rajasthan	126.13	200	1250	32425	670	10	1174
Sikkim	44.72	640	233	6223	0	0	52
Tamil Nadu	680.92	0	0	74244	1690	114	2216
Telangana	40.67	1800	900	28954	49	0	146
Tripura	176.9	0	0	50881	0	0	727
UP	656.56	400	1251	176722	5263	25	5481
Uttarakhand	313.18	840	1773	37418	345	0	1846
W.Bengal	83.04	5000	1565	7768	437	11	49
D&D Nagar Haveli	1.1			89	0	0	0
Puducherry	10			621	13	0	0
Ladhakh	1.03			1314	0	0	0
Total	7159.83			1823849	25551	594	23568

Annexure -II

Details of the Actual expenditure Incurred under National e-Governance Plan in Agriculture (NeGP-A) in last 5 years are as under:

Amount in ₹ Crore

Year	Centrally Sponsored Component of NeGP-A	Central Sector Component of NeGP-A	Total
2019-20	25.69	10.27	35.96
2020-21	21.32	21.20	42.52
2021-22	17.59	22.45	40.04
2022-23	9.62	11.27	20.89
2023-24	70.64	48.80	119.44

Annexure-III

State-wise allocation and release of RKVY during 2020-21 to 2023-24 as on 22.07.2024

Sl. No	Name of the State/UT	2021-22		2022-23		2023-24	
		Allocation	Release	Allocation #	Release	Allocation #	Release
1	Andhra Pradesh	203.47	97.19	183.20	45.80	86.33	86.33
2	Arunachal Pradesh	14.74	6.27	18.66	9.34	12.54	58.16
3	Assam	159.95	150.69	226.86	113.44	98.18	236.85
4	Bihar	140.95	69.77	131.80	0.00	77.68	48.42
5	Chhatisgarh	91.03	43.27	80.84	40.42	41.63	41.63
6	Goa	17.94	0.00	17.80	4.45	8.89	0.95
7	Gujarat	145.84	69.39	130.32	65.16	74.94	59.21
8	Haryana	83.89	64.23	57.69	28.84	34.48	28.86
9	Himachal Pradesh	23.54	11.68	22.37	0.00	14.61	3.66
10	Jammu & Kashmir	10.58	0.00	Now UTs			
11	Jharkhand	60.02	0.00	50.57	0.00	35.96	7.39
12	Karnataka	218.84	113.08	206.09	51.53	82.89	129.52
13	Kerala	63.11	50.44	55.74	27.88	30.69	14.24
14	Madhya Pradesh	197.46	96.62	180.50	45.12	99.79	66.97
15	Maharashtra	249.23	120.55	229.77	57.45	129.48	94.73
16	Manipur	23.25	17.47	31.57	7.90	16.26	29.06
17	Meghalaya	23.70	10.79	31.90	0.00	23.03	19.96
18	Mizoram	33.65	16.11	49.37	12.35	12.70	26.77
19	Nagaland	17.14	26.95	22.64	11.32	19.49	82.49
20	Orissa	107.26	49.58	90.06	19.61	55.91	46.76
21	Punjab	151.29	75.36	85.22	0.00	36.80	25.63

22	Rajasthan	179.64	87.80	166.37	83.18	93.57	30.00
23	Sikkim	9.40	4.14	14.20	3.55	6.78	66.78
24	Tamil Nadu	197.96	171.50	182.32	136.74	77.75	139.55
25	Telangana	207.64	0.00	186.00	0.00	61.07	0.00
26	Tripura	52.31	52.27	74.28	37.14	27.14	61.26
27	Uttar Pradesh	302.71	145.10	255.27	134.07	137.07	191.63
28	Uttarakhand	54.15	30.94	52.83	26.40	36.08	25.01
29	West Bengal	188.01	92.75	170.85	170.85	82.98	165.71
	Total States	3228.71	1673.94	3005.08	1132.54	1514.71	1787.52
29	A& N Islands	2.61	1.30	2.60	0.00	3.33	1.00
30	Chandigarh	0.13		0.10	0.00	0.67	0.00
31	D& N Haveli	0.10		0.10	0.00	4.44	0.00
32	Daman & Diu	0.11		0.10	0.00	0.67	0.00
33	Delhi	0.23		0.10	0.00	0.67	0.00
34	Jammu & Kashmir			9.90	2.25	5.21	4.32
35	Lakshadweep	0.10		0.10	0.00	0.44	0.00
36	Pudducherry	4.04	0.00	4.00	0.43	0.13	0.03
37	Ladakh	9.00		9.00	0.00	4.44	1.11
	Total UTs	16.32	1.30	26.00	2.68	20.00	6.46
	Grand Total	3245.02	1675.24	3031.08	1135.22	1534.71	1793.98

Annexure-IV**Fund release and achievement of the scheme of PDMC in the State**

Year	Central Assistance released (Rs. in crore)	Area covered under Micro Irrigation (in lakh ha)
2015-16	1556.73	5.73
2016-17	1991.24	8.40
2017-18	2819.39	10.49
2018-19	2918.38	11.59
2019-20	2700.02	11.73
2020-21	2562.19	9.37
2021-22	1796.12	10.15
2022-23	1901.37	11.02
2023-24	2103.11	11.40
Total	20348.54	89.88

- During 2024-25 funds of Rs. 2874.00 Cr allocated to States.
