

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST, AND CLIMATE CHANGE

RAJYA SABHA
UNSTARRED QUESTION NO. 2459
TO BE ANSWERED ON 10.08.2023

Initiatives towards climate change

2459. SHRI SANJEEV ARORA:

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE be pleased to state:

- (a) steps taken by Government towards environment and climate change which would help farmers in better planning and yield of crops; and
- (b) quantum of investment gone into these steps, the details thereof for the last five years, State/UT-wise?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(SHRI ASHWINI KUMAR CHOUBEY)

(a to b): The National Mission for Sustainable Agriculture (NMSA), is one of the Missions under the National Action Plan on Climate Change (NAPCC) which seeks to address issues regarding 'Sustainable Agriculture' in the context of risks associated with climate change by devising appropriate adaptation and mitigation strategies for ensuring food security, equitable access to food resources, enhancing livelihood opportunities and contributing to economic stability at the national level.

Rainfed Area Development (RAD) is being implemented as a component under National Mission for Sustainable Agriculture (NMSA) from 2014-15 in the country. RAD of NMSA is a unique scheme focusing on enhancing productivity and minimizing risks associated with climatic variability through Integrated Farming System (IFS). The summary of funds released in the last 5 years under this scheme is enclosed as *Annexure I*.

Department of Agriculture & Farmers Welfare (DA&FW) is also implementing Per Drop More Crop (PDMC) scheme which is operational from 2015-16 in the Country. The Per Drop More Crop scheme mainly focuses on water use efficiency at farm level through Micro Irrigation (Drip and Sprinkler Irrigation System) under RKVY cafeteria approach. The year wise budget released to the States under PDMC Schemes is enclosed as *Annexure II*.

The Indian Council of Agricultural Research (ICAR), Ministry of Agriculture and Farmers Welfare, Government of India launched a flagship network research project 'National Innovations in Climate Resilient Agriculture' (NICRA) in 2011. The project aims to develop and promote climate resilient technologies in agriculture, which addresses vulnerable areas of the country and the outputs of the project help the districts and regions prone to extreme weather conditions like droughts, floods, frost, heat waves, etc. to cope with such extreme events. Since 2014, 1888 climate resilient varieties have been developed besides 68 location specific climate resilient technologies have been developed and demonstrated for wider adoption among farming communities.

Agromet Advisories are disseminated to the farmers through multichannel dissemination system like print and electronic media, Door Darshan, radio, internet etc. including SMS using mobile phones through Kisan Portal and also through private companies under Public Private Partnership (PPP) mode.

Farmers access the weather information including alerts and related agromet advisories specific to their districts through the mobile App viz., 'Meghdoot' launched by Ministry of Earth Sciences, Government of India. These weather details are also accessible by farmers through another App 'Kisan Suvidha', launched by Ministry of Agriculture & Farmers Welfare. Social media like 'WhatsApp' is also used for quicker dissemination of weather forecast and agromet advisories.

IMD is organising Farmers' Awareness Programmes (FAPs) to popularize the services among the farming community. IMD along with the experts from Agromet Field Units (AMFUs) and District Agromet Units (DAMUs) participate in Kisan Melas, Farmers' Day etc. to create awareness about the services, so that more farmers get benefitted.

Central Assistance released under Rainfed Area Development (RAD) component of NMSA (Rs. in lakh)							
SN	State	2018-19	2019-20	2020-21	2021-22	2022-23	Total
1	Andhra Pradesh	1750	1400	500	0	250	3900
2	Telangana	420	600	0	0	0	1020
3	Bihar	97.2	0	107.5	0	75	279.7
4	Chhattisgarh	650	0	600	150	300	1700
5	Gujarat	1160	666.08	900	0	194.95	2921.03
6	Haryana	0	0	0	0	0	0
7	Jharkhand	671.1	0	0	0	125	796.1
8	Karnataka	553.99	954.1	900	775	913.75	4096.84
9	Kerala	0	0	100	50	50	200
10	Madhya Pradesh	0	270	0	0	125	395
11	Maharashtra	2500	1650	475	400	1500	6525
12	Odisha	2092.91	1700	1200	682.5	375	6050.41
13	Rajasthan	0	263.54	300	125	250	938.54
14	Tamil Nadu	3550	3300	3000	2250	2268	14368
15	Uttar Pradesh	2508.45	3400	750	1050	1721.73	9430.18
16	West Bengal	800	480	700	350	687.5	3017.5
17	Himachal Pradesh	800	865	480	600	0	2745
18	Jammu & Kashmir	100	0	100	0	62.5	262.5
19	UT of Ladakh	0	0	16.5	0	16.65	33.15
20	Uttarakhand	800	900	800	600	668.75	3768.75
21	Assam	0	60	0	25	0	85
22	Arunachal Pradesh	120	120	200	100	148.5	688.5
23	Manipur	0	60	150	37.5	50	297.5
24	Meghalaya	398.7	180	100	0	60	738.7
25	Mizoram	700	500	350	0	125	1675
26	Nagaland	900	700	600	275	650	3125
27	Sikkim	240	120	160	150	125	795
28	Tripura	600	400	300	62.5	75	1437.5
Total		21412.35	18588.72	12789	7682.5	10817.33	71289.9

Annexure II

Fund released under PDMC Scheme from 2018-19 to 2022-23							
							(Rs. in Crore)
S.	States	2018-19	2019-20	2020-21	2021-22	2022-23	Total
1	Andhra Pradesh	520	452	100	180	222.82	1474.82
2	Bihar	27.91	0		21.6	9.5	59.01
3	Chhattisgarh	43.39	32.15	45		34.5	155.04
4	Goa	1.2	0.5			0.24	1.94
5	Gujarat	272.5	280	273	72.79	113	1011.29
6	Haryana	27.41	16.8	98	57.6	78	277.81
7	Himachal Pradesh	26	18	20	17.5	0	81.5
8	Jharkhand	10	22.97	42	30	25	129.97
9	Jammu & Kashmir	7.8	27	10		0	44.8
10	Karnataka	372.03	410	400	500	187.64	1869.67
11	Kerala	4	0	5		0	9
12	Madhya Pradesh	132.56	102	125		50	409.56
13	Maharashtra	360	325	300	200	334	1519
14	Odisha	58	30	27		16.25	131.25
15	Punjab	9	0			3.75	12.75
16	Rajasthan	168.48	75	200	100	186	729.48
17	Tamil Nadu	355	523	400	116	159.5	1553.5
18	Telangana	122	0			33.22	155.22
19	Uttarakhand	43	32	50	30	66.75	221.75
20	Uttar Pradesh	87.88	100	200	150	149.25	687.13
21	West Bengal	40	20	61		0	121
22	Arunachal Pradesh	12.5	18	25	40	10	105.5
23	Assam	30	42		31	20	123
24	Manipur	40	40	27.5	60	15	182.5
25	Meghalaya	12	0	15		0	27
26	Mizoram	27.8	28	25	33	13.75	127.55
27	Nagaland	35	53	30	55	50	223
28	Sikkim	55.19	31.8	35	42	52.5	216.49
29	Tripura	15	18	13.2		4.76	50.96
30	Andaman & Nicobar	0	0	0	0	0	0
31	Puducherry	0	0	0	0	0	0
32	Ladakh	0	2.4	0	0	0.5	2.9
33	HQ	2.73	0.4	35.49	59.63	65.44	163.69
	Grand Total	2918.38	2700.02	2562.19	1796.12	1901.37	11878.08