

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

RAJYA SABHA
UNSTARRED QUESTION NO. 1922
TO BE ANSWERED ON THE 23/12/2022

IMPLEMENTATION OF SOIL HEALTH CARD SCHEME

1922. DR. SANTANU SEN:

Will the Minister of AGRICULTURE & FARMERS WELFARE be pleased to state:

- (a) the details of budget allocated and utilized for Soil Health Card scheme since 2017, State-wise, year-wise;
- (b) the number of farmers enrolled in the scheme out of total farmers across the country, State-wise and district-wise;
- (c) the cumulative findings from the data collected via Soil Health Card scheme since 2017, year-wise; and
- (d) whether Government has taken any steps to deal with the issues reflected in the findings, if so, the details thereof and if not, the reasons therefor?

ANSWER

MINISTER OF AGRICULTURE AND FARMERS WELFARE

(SHRI NARENDRA SINGH TOMAR)

(a): Government is implementing the Soil Health Card (SHC) scheme since 2015 to provide soil test based fertilizer use recommendations periodically to the farmers in the country. The details of budget allocated, released and utilized since 2017, under Soil Health Card/Soil Health Management Scheme of National Project on Management of Soil Health & Fertility, State-wise and year wise are at **Annexure- I**.

(b) to (d): In Cycle- I (2015 to 2017), 10.74 crore and in Cycle- II (2017 to 2019), 12.19 crore grid based Soil Health Cards have been distributed to farmers. In Model Village Programme (2019-20), 23.71 lakh and during the year 2020-21, 11.52 lakh land holdings based Soil Health Cards have also been distributed to farmers. The State-wise Soil Health Cards distributed to farmers in the country is at **Annexure- II** and district –wise data is available at Soil Health Card Portal <https://www.soilhealth.dac.gov.in>.

The details of demonstrations, farmer's trainings & farmer's mela organized and the number of Soil Testing Laboratories (STLs) sanctioned since 2017, under Soil Health Card (SHC)/Soil Health Management (SHM) are as under:

Year	Demonstration	Training	Farmer's Mela	Static STLs	Mobile STLs	Mini STLs	Village Level STLs
2017-18	-	-	-	1	8	3140	1
2018-19	83706	702	474	8	8	-	1561
2019-20	247016	-	6951	15	-	-	-
2020-21	92050	91835	-	69	11	59	833
2021-22	-	-	-	1	-	-	-
2022-23	-	-	-	7	-	-	-
Total	422772	92537	7425	101	27	3199	2395

National Productivity Council (NPC), New Delhi and National Institute of Agricultural Extension Management (MANAGE), Hyderabad have conducted study about the Soil Health Card Scheme and gist of conclusion drawn by them are at **Annexure III**. It can be seen from these two study reports that findings are positive and steps taken under Soil Health Card (SHC)/ Soil Health Management (SHM) has been continued and now, the scheme has been merged as Soil Health & Fertility Component of Rashtriya Krishi Vikas Yojana (RKVY) from the year 2022-23. This year budget allocation is Rs.274.61 crore and against this amount of Rs.13.58 crore has been released so far.

State-wise Budget Allocated, Released and Utilized for Soil Health Card/Soil Health Management scheme of National Project on Management of Soil Health & Fertility since 2017

(Rs. in Crore)

Sl. No.	Name of the State	2017-18			2018-19			2019-20		
		Allocation	Released	Utilized	Allocation	Released	Utilized	Allocation	Released	Utilized
1	Andhra Pradesh	17.30	24.47	24.47	19.57	31.91	31.91	14.05	14.05	14.05
2	Arunachal Pradesh	0.28	0.38	0.38	0.83	1.07	1.07	1.59	1.19	1.19
3	Assam	7.16	1.38	1.38	10.11	6.80	5.62	6.11	6.91	6.91
4	Bihar	19.86	0.00	0.00	17.64	10.31	9.70	16.78	11.51	10.47
5	Chhattisgarh	9.62	10.12	10.12	11.28	11.40	11.29	6.10	4.05	3.92
6	Goa	0.92	0.00	0.00	0.33	0.71	0.00	0.20	0.15	0.04
7	Gujarat	21.34	23.29	23.29	27.03	11.51	11.51	4.33	5.53	5.53
8	Haryana	17.30	15.15	15.15	19.25	13.91	13.91	20.08	1.71	1.71
9	Himachal Pradesh	2.10	1.93	1.93	2.00	3.38	3.38	1.73	2.36	2.36
10	Jammu & Kashmir	2.23	0.00	0.00	3.17	3.65	3.31	20.79	3.35	3.22
11	Jharkhand	1.04	0.00	0.00	2.46	1.51	0.31	4.20	5.64	0.00
12	Karnataka	20.76	15.68	15.68	26.69	27.61	27.61	6.49	4.87	4.87
13	Kerala	1.15	0.00	0.00	3.22	1.55	1.31	5.89	3.87	0.00
14	Madhya Pradesh	26.91	26.69	26.69	37.40	21.65	20.54	75.83	5.01	4.37
15	Maharashtra	22.02	10.67	10.67	46.89	47.80	47.80	8.55	9.90	9.90
16	Manipur	1.18	0.68	0.68	0.50	0.00	0.00	1.01	0.76	0.76
17	Meghalaya	0.85	0.40	0.40	0.84	3.21	3.21	0.59	0.30	0.30
18	Mizoram	0.21	0.12	0.12	0.33	0.62	0.62	0.76	0.87	0.87
19	Nagaland	3.01	0.00	0.00	0.83	0.40	0.40	14.38	10.79	10.79
20	Odisha	6.02	7.49	7.49	11.02	4.57	4.57	6.38	7.11	7.11
21	Punjab	17.45	2.47	1.59	11.69	5.05	4.06	12.36	1.51	0.87
22	Rajasthan	25.78	0.00	0.00	58.62	25.74	21.13	5.78	5.30	3.95
23	Sikkim	2.90	0.14	0.14	0.95	0.92	0.92	4.57	2.58	2.58
24	Tamil Nadu	11.47	8.69	8.69	17.46	16.18	16.18	11.22	9.83	9.83
25	Telangana	18.63	15.07	15.07	14.59	20.99	4.99	19.24	22.09	7.84
26	Tripura	0.80	0.33	0.33	0.76	1.15	1.15	2.05	2.16	2.16
27	Uttar Pradesh	47.68	22.56	22.56	61.28	32.25	28.56	16.95	9.98	9.96
28	Uttarakhand	1.83	1.17	1.17	2.82	2.85	2.85	2.25	2.25	1.77
29	West Bengal	13.26	5.91	5.91	17.35	6.37	6.25	6.56	3.28	1.73
30	Pondicherry	0.18	0.14	0.14	0.20	0.52	0.52	0.61	0.14	0.14
31	A&N Island	-	-	-	0.08	0.06	0.00	0.38	0.34	0.00
32	D & D and D & NH	-	-	-	0.08	0.06	0.00	0.06	0.04	0.00
33	Ladakh	-	-	-	-	-	-	1.73	-	-
	Total	321.22	194.95	194.07	427.25	315.72	284.69	299.59	159.44	129.20

State-wise Budget Allocated, Released and Utilized for Soil Health Card/Soil Health Management scheme of National Project on Management of Soil Health & Fertility since 2017

(Rs. in Crore)

Sl. No.	Name of the State	2020-21			2021-22			Total (2017-18 to 2021-22)		
		Allocation	Released	Utilized	Allocation	Released	Utilized	Allocation	Released	Utilized
1	Andhra Pradesh	8.92	8.92	4.46	1.68	-	-	61.51	79.35	74.89
2	Arunachal Pradesh	5.18	4.69	4.69	2.03	-	-	9.90	7.33	7.33
3	Assam	24.21	16.21	0.00	0.00	-	-	47.58	31.31	13.92
4	Bihar	18.28	6.85	3.35	4.05	-	-	76.61	28.67	23.52
5	Chhattisgarh	6.87	3.02	2.69	-	-	-	33.87	28.60	28.03
6	Goa	0.86	-	-	2.16	-	-	4.47	0.86	0.04
7	Gujarat	8.94	3.69	3.69	-	0.08	0.08	61.64	44.10	44.10
8	Haryana	18.44	0.53	0.53	1.17	-	-	76.24	31.31	31.31
9	Himachal Pradesh	8.27	4.54	4.53	-	-	-	14.10	12.21	12.20
10	Jammu & Kashmir	11.85	5.92	5.80	2.95	-	-	40.98	12.93	12.34
11	Jharkhand	8.73	4.04	0.00	0.45	-	-	16.88	11.18	0.31
12	Karnataka	13.41	13.10	13.10	0.15	-	-	67.49	61.26	61.26
13	Kerala	1.89	-	-	-	-	-	12.14	5.41	1.31
14	Madhya Pradesh	17.39	3.35	2.72	-	-	-	157.53	56.71	54.33
15	Maharashtra	6.15	3.71	3.71	-	-	-	83.61	72.08	72.08
16	Manipur	8.30	5.36	5.36	-	-	-	10.99	6.79	6.79
17	Meghalaya	2.58	1.39	1.39	0.45	-	-	5.32	5.30	5.30
18	Mizoram	2.06	1.19	1.19	-	-	-	3.35	2.80	2.80
19	Nagaland	14.54	11.00	11.00	14.85	7.48	7.48	47.61	29.67	29.67
20	Odisha	16.04	13.09	10.10	-	-	-	39.46	32.26	29.27
21	Punjab	7.51	13.09	3.67	2.04	-	-	51.04	22.11	10.18
22	Rajasthan	11.26	13.28	4.63	-	-	-	101.43	44.33	29.71
23	Sikkim	0.65	0.50	0.50	-	1.20	0.00	9.07	5.34	4.13
24	Tamil Nadu	9.00	8.65	8.57	2.94	-	-	52.09	43.36	43.28
25	Telangana	2.50	-	-	1.20	-	-	56.16	58.15	27.90
26	Tripura	1.89	1.38	1.38	-	-	-	5.51	5.03	5.03
27	Uttar Pradesh	27.70	43.13	29.84	4.08	-	-	157.68	107.92	90.92
28	Uttarakhand	8.84	8.50	6.76	1.53	-	-	17.27	14.78	12.55
29	West Bengal	10.30	0.00	0.00	0.72	-	-	48.19	15.56	13.88
30	Pondicherry	0.46	0.04	0.04	-	-	-	1.44	0.84	0.84
31	A&N Island	0.11	-	-	-	-	-	0.57	0.39	0.00
32	D & D and D & NH	-	-	-	-	-	-	0.14	0.10	0.00
33	Ladakh	1.57	0.78	0.36	0.12	-	-	3.42	0.78	0.36
	Total	284.66	199.95	134.06	42.57	8.76	7.56	1375.28	878.82	749.58

Annexure II**State-wise Soil Health Cards issued to the Farmers in the country under Soil Health Card (SHC) Scheme**

Sl. No.	States/UTs	No. of SHCs issued to farmers				Total
		Cycle-I (2015-17)	Cycle-II (2017-19)	Model Village Programme (2019-20)	2020-21	
1	Andaman & Nicobar	10000	9540	1007	3000	23547
2	Andhra Pradesh	7455204	6927733	226487	-	14609424
3	Arunachal Pradesh	20532	44256	5432	53	70273
4	Assam	1300901	1296197	67860	-	2664958
5	Bihar	6469650	6277942	123866	305223	13176681
6	Chhattisgarh	3890709	5514508	65341	387	9470945
7	D&D and D&N Haveli	2222	12994	581	-	15797
8	Goa	25000	19550	2909	6556	54015
9	Gujarat	5108923	8671152	63591	-	13843666
10	Haryana	4227238	4143900	25605	18972	8415715
11	Himachal Pradesh	385011	960765	19671	5168	1370615
12	J&K	692062	1014182	56742	159890	1924594
13	Ladakh			1718	-	
14	Jharkhand	637507	263815	24037	-	925359
15	Karnataka	7832189	9073145	73221	40104	17018659
16	Kerala	763435	2319002	126540	118022	3326999
17	Madhya Pradesh	8872377	8907385	127585	133000	18040347
18	Maharashtra	12977232	13067735	201837	-	26246804
19	Manipur	114522	114522	10010	10010	249064
20	Meghalaya	209561	216514	3243	8531	437849
21	Mizoram	11986	16458	2119	-	30563
22	Nagaland	184797	12000	27304	-	224101
23	Odisha	2374233	2047308	440927	52056	4914524
24	Puducherry	19594	12089	2508	64	34255
25	Punjab	1251726	1160568	19196	19196	2450686
26	Rajasthan	6886000	12079000	104774	33347	19103121
27	Sikkim	46000	66000	2936	-	114936
28	Tamil Nadu	7000000	7016654	58317	32750	14107721
29	Telangana	5720737	4842509	110664	165527	10839437
30	Tripura	117723	158337	15002	6467	297529
31	Uttar Pradesh	17014573	20354551	255517	27014	37651655
32	Uttarakhand	750494	882797	13645	6700	1653636
33	West Bengal	5040510	4423049	91360	-	9554919
Total		107412648	121926157	2371552	1152037	232862394

Gist of conclusions of study drawn by National Productivity Council, New Delhi and National Institute of Agricultural Extension Management (MANAGE), Hyderabad

S. No.	Study drawn by	Conclusions
1	National Productivity Council (NPC), New Delhi	<ul style="list-style-type: none">• As a result of application fertilizer and micro nutrients as per the recommendations on Soil Health Cards, it was reported that there has been a decrease of use of chemical fertilizer application in the range of 8-10%.• Overall increase in yield of crops to the tune of 5-6% was reported due to application of fertilizer and micro nutrients as per recommendations available in the Soil Health Cards.• The use of Neem Coated Urea has resulted in lower consumption of fertilizer by about 4-5% with lower incidence of pests and diseases with higher yields to the tune of 5-6%.
2	National Institute of Agricultural Extension Management (MANAGE), Hyderabad	<ul style="list-style-type: none">• There is some reduction in fertilizer use, especially nitrogen and increase in bio-fertilizers and other micro-nutrients use. This is a good sign as N: P: K ratio was highly skewed towards nitrogen.• Costs were reduced due to low fertilizer use. Crop yields have also increased for majority of the crops, although only moderately.• Two-thirds of the sample farmers indicated that SHC is beneficial which is encouraging.• Overall, paddy farmers reduced use of urea by 9%, DAP/SSP by 7%, but increased use of Potassium by 20%. This is a healthy sign of moving towards balanced use of fertilizers. All the three crops showed a decline in costs per acre by about 4 to 10 percent.• There was substantial decline in fertilizer use especially urea and DAP in paddy and cotton resulted in decreased cost of cultivation per unit area.
