

**CIRCULAR**

Sub: National Mission for Sustainable Agriculture -Implementation of pilot project on 'Development of Model Villages' under Soil Health Card Scheme – 2019-20 – Working Instructions issued - reg

- Ref: 1. Operational guidelines for implementation Soil Health Card (SHC) and Soil Health Management (SHM) during 2019-20  
2. GOI letter F. No. 14-3/2018-Fert. Use dated 4.09.2019  
3. GOI letter F. No.16-18/2015-Fert Use (I),(ii) and (iii) dated 16.09.2019

Soil Health Card is the field specific report on soil fertility status and other important soil parameters that affect crop productivity. Besides soil health, it also provides an advisory on soil test based use of fertilizers and amendments. Government of India have implemented 'Soil Health Card' Scheme 1<sup>st</sup> cycle during 2015-16 and 2016-17 and 2<sup>nd</sup> cycle during 2017-18 and 2018-19.

During 2019-20, it has been decided that in place of 3<sup>rd</sup> two year cycle, **a pilot project 'Development of Model Villages'** is to be taken up where soil sample collection will be from individual farmer holding with farmer participation. Under the pilot project, **one village per block** is to be adopted for holding based soil testing, to organize demonstrations (1 ha each) for each adopted village and organization of farmer melas for awareness creation.

Villages that were found deficient in soil nutrients during cycle-I and II were selected for implementation of "Development of Model Villages." As per reference 2<sup>nd</sup> cited, Government of India have conveyed the list of villages along with activities ie., Soil samples, demonstrations and Farmers/Krishi Mela, where the scheme is to be implemented during 2019-20, which is attached as annexure.

As per reference 3<sup>rd</sup> cited, Government of India has conveyed the sanction to release an amount of Rs. 386.54 lakh (Rs. 293.77 lakh under General category, Rs. 61.85 lakh under SC category and Rs. 30.92 lakh under ST Category) as first instalment of funds for implementation of Soil Health Card Scheme during 2019-20 in the funding pattern of 60:40 between Government

of India and Government of Kerala. The state level Administrative Sanction and release of funds is awaited.

### **Programmes involved:**

#### **1. Collection of soil sample:**

1. The scheme will be implemented **only in the selected villages**. The targeted number of soil samples should be collected from **individual farmer holdings of the selected model village** in each block.
2. The details in the information sheet should be collected and filled by the person drawing the soil sample. The soil sample information sheet (Malayalam) is attached. **It is mandatory to provide farmers aadhar number, mobile number, survey number and farmer field's GPS position for registration of sample**. The GPS coordinates of sampling sites have to be mentioned in the portal.
3. If a farmer is involved in bringing the sample to the Krishi Bhavan/Soil Testing Laboratory, then the share of Rs. 40 allocated for soil sample collection should be provided to the farmer.
4. Soil sample should be collected by the Agricultural Assistants of Krishi Bhavans. The service of Agricultural Assistants of the remaining panchayats of each block may be utilised for soil sample collection.
5. Soil sample collection should be conducted in campaign mode so that it is completed in a fortnight's time.

#### **District wise target for collection of Soil Samples 2019-20**

The district wise and village wise target is attached as annexure. In each district, Project Director ATMA in consultation with the Principal Agricultural Officer should conduct discussions with the District Officer, Department of Soil Survey and Soil Conservation and finalise the list of villages where soil sample collection, analysis, generation and distribution of SHCs are to be covered by them. The list of villages selected by the Department of Soil Survey and Soil Conservation should be intimated to the Director of Agriculture.

#### **2. Farmer registration**

The details of soil samples collected are to be uploaded in the Soil Health Card Portal under the Model Village Programme 2019-20 window.

It should be ensured by the Agricultural Officers that the details of all the farmers should be collected and entered in the sample information sheets and the details of these farmers should be registered in the portal.

The Soil samples thus collected should be handed over to the concerned Soil Testing Labs after Farmer registration by BTMs/Field Assistants/Data entry operators at Krishi Bhavan level.

### 3. Analysis of soil sample

Analysis of the soil samples will be done in the District Soil Testing Laboratories and Mobile Soil Testing Laboratories.

A minimum of 50 samples should be analysed including micro nutrients per day in each lab equipped with AAS.

### 4. Soil Health Card Generation

DSTLs and MSTLs will conduct analysis of Soil Samples assigned to them and generate Soil Health Cards, preferably in Malayalam. Soil Health Cards should be generated for all the farmers registered in the portal. **The new format of soil health card which is available in the national Soil Health Card portal is to be used for providing recommendations to farmers.**

### 5. Distribution of Soil Health Card

The SHCs generated should be handed over to the concerned Krishi Bhavan and the Krishi Bhavan staff should in turn distribute it to the farmers.

### Implementation of the scheme

As detailed above the scheme has five programmes viz., soil sample collection, farmer registration, analysis of soil samples and Soil Health Card generation and distribution.

**The soil sample collection and farmer registration will be done by staff of Krishi Bhavans with the help of contract staff of ATMA, LEADS, VDP, etc and in villages selected by Department of Soil Survey and Soil Conservation, the soil sample collection and farmer registration will be done by them.**

### Cost Norms for soil sample collection and testing and generation and distribution of SHCs

Cost of one soil sample from collection to SHC generation is Rs.300/-

Sl. No.	Activities/Components	Amount (in Rs.)
1	Sampling Cost	40
2	Engaging contractual services & training per STL	37

3	For analyzing soil samples, cost of chemicals + Misc	150
4	Printing of SHCs per sample	50
5	Distribution of Soil Health Card per sample	10
6	Demonstration	5
7	Funds for awareness/mission management /STL	4
8	GPS	4
	<b>Cost of one Sample</b>	<b>300</b>

## 2. Setting up of Demonstration plots:

This component will be implemented by the Department of Agriculture. Demonstration plots of 1 ha each are to be set up in the **model villages**. Financial assistance to farmers is provided to apply corrective measures for nutrient deficiencies and pH balance and INM practices for improving the soil fertility.

A total assistance of Rs. 2500/- per ha. can be given for application of fertilizers and organic manures apart from soil ameliorants, biofertilizers and micronutrients based on soil test data. The GPS coordinates of the demonstration plots should also be recorded (geo fencing). There is a total provision of Rs. 188.525 lakh for providing assistance to farmers in 7541 ha. The district wise physical and financial target is appended in **Annexure**. **This component should be implemented in the model villages utilising the services of the staff of the remaining Krishi Bhavans and contract staff of ATMA, LEADS, VDP, etc coming under the block**

## 4. Organisation of Farmers Melas:

Farmer melas/ campaigns are to be organized at various stages of crop growth to show the demonstrations to the farmers of nearby villages to create awareness on nutrient application as per SHC recommendation. An amount of **Rs. 1,00,000/- per village** is provided for conducting farmers mela. This amount can be utilized for conducting a **minimum of two melas during the cropping season**. The amount can be utilized for conducting seminars, exhibitions, etc. There is a total provision of Rs. 152 lakh for organising Farmers melas. The district wise physical and financial target is appended in **Annexure**.

## 5. Mission Management:

This amount is allotted to the Soil Testing Laboratories and can be used for engaging data entry operator in STLs @ Rs. 7500/- per month

**Financial outlay:**

Sl. No.	Component	Physical target	Rate of assistance (in Rs.)	Financial target (Rs. in lakh)		
				GoI	GoK	Total
1.	Analysis of soil samples and generation of SHC	167200 no	300	300.96	200.64	501.60
2.	Demonstrations	7541 ha	2500	113.12	75.41	188.53
3.	Farmers mela	152 nos.	100000	91.2	60.8	152
4.	Mission Management		2%	10.11	6.74	16.85
<b>TOTAL</b>				<b>515.39</b>	<b>343.59</b>	<b>858.98</b>

The total amount allocated for the scheme for 2019-20 is Rs 858.98 lakh in 60:40 pattern (GoI share 60% and GoK share 40%). An amount of Rs.386.54 lakh has been allotted by Government of India (75% of the GoI allocation) as per reference 3rd cited above. The state level Administrative Sanction and release of funds is awaited.

**District wise allocation of funds will be done on receipt of GoI and GoK shares**

**Monitoring:**

The District ATMA will be the implementing agency at district level and the Principal Agricultural Officer, assisted by Deputy Directors (E&T) will be in charge of fund allocation. The final Utilization Certificate and completion report will be submitted by the Principal Agricultural Officer.

In each district, a **District Level Executive Committee** is to be constituted with District Collector as Chairman, Joint Director of Agriculture as Member Secretary, Project Director ATMA, Deputy Director of Agriculture (E&T) as members, the representatives of the line Departments and Kerala Agricultural University/KVKs as expert members. The DLEC will be responsible for carrying forward the objectives of the schemes for project formulation, implementation and monitoring.

The Chief Soil Chemist should monitor the analysis of soil samples by the Assistant Soil Chemists of Soil Testing Laboratories and monitor the uploading of soil test results in the Soil Health Card Portal and generation of Soil Health Cards.

At the State level, monitoring will be done by the Additional Director of Agriculture (Planning).


Sd/-  
Director of Agriculture



To:

The Director, Department of Soil Survey and Soil Conservation.  
All Principal Agricultural Officers  
All Project Directors, ATMA  
Chief Soil Chemist  
Assistant Soil Chemists of all DSTLs and MSTLs  
All Assistant Directors of Agriculture  
IT section for publishing in the website  
TA to Director of Agriculture  
Planning Section

S W Suckin

  
Additional Director of Agriculture (P.L.)  
Vikas bhavan, Thaparam

# കേന്ദ്രാവിഷ്കൃത സോയിൽ ഹെൽത്ത് കാർഡ് പദ്ധതി

(മണ്ണ് സാമ്പിളുകളോടൊപ്പം ശേഖരിക്കേണ്ട വിവരങ്ങൾ)

1. കർഷകന്റെ പേര്\* :
2. സ്ത്രീ / പുരുഷൻ / മറ്റുള്ളവർ\* :
3. അച്ഛന്റെ/ ഭർത്താവിന്റെ പേര്\* :
4. ജാതി/വിഭാഗം\* : (ജനറൽ/എസ്സി/എസ്റ്റി)
5. മേൽവിലാസം :
  
6. മൊബൈൽ നമ്പർ :
7. ആധാർ നമ്പർ :
8. വില്ലേജ് :
9. പഞ്ചായത്ത് :
10. ബ്ലോക്ക് :
11. താലൂക്ക്:

കർഷകന്റെ ഭൂമി സംബന്ധമായ വിവരങ്ങൾ

സർവ്വേ നമ്പർ\* : വിസ്തീർണ്ണം :

ജി.പി.എസ്. വിവരങ്ങൾ :

അക്ഷാംശം(Latitude)\* : രേഖാംശം(Longitude)\* :

ഭൂമിശാസ്ത്രം:

നിരപ്പായത്

ചരിഞ്ഞത്

താഴ്വാരം

മണ്ണിന്റെ രചന (Soil Texture):

മണ്ണിന്റെ തരം (Soil Type) :

ജലസേചന സൗകര്യം : ഉണ്ട് / ഇല്ല കിണർ/കുഴൽകിണർ/കനാൽ/മറ്റുള്ളവ

പ്രധാന കാർഷിക വിളകൾ

വിള	ഇനം	ദീർഘകാല വിള/ ഹ്രസ്വകാല വിള	ഭൂഗർഭ ജലനിരപ്പ്	വൃക്ഷത്തിന്റെ പ്രായം	ശരാശരി വിളവ്	വിസ്തീ ർണ്ണം

\* Fields are mandatory

## District-wise details of selected villages under Soil Health Card Scheme

Sl No.	Name of District	Block	Name of Villages selected in each block	Number of land holdings in each selected village	Number of Demonstrations in selected village	Number of Krishi/Farmers Mela in selected village
1	Trivandrum	Parassala	Thirupuram	1124	50	1
2		Aryancode	Kallickad	1009	50	1
3		Neyyattinkara	Athiyannur	959	50	1
4		Pallichal	Balaramapuram	1304	50	1
5		Vamanapuram	Nellanad	886	50	1
6		Nedumangadu	Nedumangadu	1110	50	1
7		Kattakkada	Kulathummal	1025	50	1
8		Kazhakkuttam	Kudinamkulam	1036	50	1
9		Attingal	Edakkode	989	50	1
10		Varkala	Vettoor	1124	50	1
11		Pulimath	Nagaroor	1458	50	1
	<b>Total</b>			<b>12024</b>	<b>550</b>	<b>11</b>
12	Kollam	Sasthamcotta	Mynagappally	1541	50	1
13		Vettikkavala	Vettikkavala	1118	50	1
14		Chadayamangalam	Kummil	488	50	1
15		Oachira	Kulasekharapuram	1474	50	1
16		Chathannoor	Kalluvathukkal	1101	50	1
17		Anechal	Aryankavau	1015	50	1
18		Eravipuram	Eravipuram	760	50	1
19		Chavara	Panmana	525	50	1
20		Kundara	Thrikkaruva	948	50	1
21		Kottarakkara	Neduvathur	1024	50	1
22		Punalur	Pattazhi south	1107	50	1
	<b>Total</b>			<b>11101</b>	<b>550</b>	<b>11</b>
23	Pathanamthitta	Adoor	Pallikkal	1144	50	1
24		Pandalam	Pandalam Thekkekkara	1040	50	1
25		Thiruvalla	Nedumpram	989	50	1
26		Pullad	Koyippuram	1231	50	1
27		Mallappally	Kunnamthanam	1004	50	1
28		Ranni	Vadasserikkara	1054	50	1
29		Konni	Pramadam	992	50	1
30		Pathanamthitta	Chenneerkkara	986	50	1



	<b>Total</b>		<b>8440</b>	<b>400</b>		
31	Alappuzha	Panavally	Chenampallipuram	1123	50	1
32		Kuthiathode	Thuravoor	1140	50	1
33		Cherthala	Thanneermukkam South*	1156	50	1
34		Alappuzha	Mannanchery	1128	50	1
35		Ambalappuzha	Karumady	900	50	1
36		Champakkulam	Champakkulam	1124	50	1
37		Ramankary	Muttar	1015	50	1
38		Haripad	Thrikkunnapuzha	1121	50	1
39		Kayamkulam	Muthukulam	1054	50	1
40		Charummood	Nooranad	1102	50	1
41		Mavelikkara	Thekkekkara	1005	50	1
42		Chengannur	Venmony	1169	50	1
	<b>Total</b>		<b>13037</b>	<b>600</b>		<b>12</b>
43	Kottayam	Pallom	Perumpaikkad	1085	50	1
44		Pampady	Pampady	1010	50	1
45		Vazhoor	Vazhoor	1178	50	1
46		Madappally	Madappally	502	50	1
47		Pala	Meenachil	1354	50	1
48		Erattupetta	Kondoor*	1387	50	1
49		Kanjirappally	Manimala	1259	50	1
50		Uzhavoor	Kuravilangadu	1315	50	1
51		Kaduthuruthy	Njeezhoor	1089	50	1
52		Ettumanoor	Ettumanoor	420	50	1
53		Vaikom	Vaikom	1100	50	1
	<b>Total</b>		<b>11699</b>	<b>550</b>		<b>11</b>
54	Idukki	Thodupuzha	Muttam	1038	50	1
55		Elamdesam	Kudayathur	1189	50	1
56		Idukki	Arakulam	1104	50	1
57		Kattappana	Kattappana	1087	50	1
58		Nedumkandam	Rajakumari	1450	50	1
59		Peerumedu	Kumili	1074	50	1
60		Devikulam	Munnar	1005	50	1
61		Adimali	Konnathadi	1308	50	1
	<b>Total</b>		<b>9255</b>	<b>400</b>		<b>8</b>
62	Ernakulam	Njarakkal	Njarakkal	1160	50	1
63		N. Paravoor	Kottuvally	960	50	1

		Aluva	Karumaloo	1031	50	1
65		Nedumbassery	Parakkadavu	1287	50	1
66		Kalamassery	Thrikkakkara North*	718	50	1
67		Vytilla	Kumbalam	982	50	1
68		Perumbavoor	Vengoor	600	50	1
69		Angamaly	Manjapra	466	50	1
70		Keezhmad	Keezhmad	1178	50	1
71		Poothrikka	Puthencruz	1054	50	1
72		Muvattupuzha	Mulavoor*	1008	50	1
73		Kothamangalam	Kuttamangalam*	1358	50	1
74		Piravam	Memury*	850	28	1
75		Mulamthuruthy	Amballoor	1112	33	1
		<b>Total</b>		<b>13764</b>	<b>661</b>	<b>14</b>
76	Thrissur	Anthikkad	Anthikkad	976	50	1
77		Chalakkudy	Melloor	1077	50	1
78		Chavakkad	Punnayurkulam	1072	50	1
79		Cherpu	Cherpu	910	50	1
80		Chowannur	Eyal	1003	50	1
81		Irinjalakkuda	Muriyad	1045	50	1
82		Kodakara	Nanthipulam	510	30	1
83		Mala	Thirumukkulam	1011	50	1
84		Mathilakam	Edathiruthi	1287	50	1
85		Mullassery	Pavaratty	800	50	1
86		Ollukkara	Puthoor	840	50	1
87		Pazhayannur	Kondazhy	1183	50	1
88		Puzhakkai	Kilannur	1019	50	1
89		Thalikulam	Nattika	1176	50	1
90		Vellangallur	Edathirinji	1258	50	1
91		Wadakkanchery	Varavoor	850	50	1
		<b>Total</b>		<b>16017</b>	<b>780</b>	<b>16</b>
92	Palakkad	Mannarkkad	Mannarkkad II	1129	50	1
93		Shornoor	Vaniamkulam II	1100	50	1
94		Pattambi	Ongalloor I	1165	50	1
95		Malampuzha	Kodumbu	982	50	1
96		Agali	Agali	2195	50	1
97		Chittur	Nalleppilli	1987	50	1
98		Palakkad	Mankara	1024	50	1

99	Alathur	Tharur	1459	50		
100	Nenmara	Melarkode	1054	50	1	
101	Thrithala	Kappur	1826	50	1	
102	Sreekrishnapuram	Sreekrishnapuram I	1142	50	1	
103	Kollengode	Peruvembu	958	50	1	
104	Kuzhalmannam	Kuthannur I	1122	50	1	
<b>Total</b>			<b>17143</b>	<b>650</b>	<b>13</b>	
105	Malappuram	Perumpadappa	Maranchery	1048	50	1
106	Thavanur	Kalady	1064	50	1	
107	Tirur	Thirunavaya	1012	50	1	
108	Valanchery	Kattipparuthy*	1057	50	1	
109	Ponmundam	Niramaruthur	1024	50	1	
110	Parappanagadi	Thenjipalam	1188	50	1	
111	Vengara	AR Nagar	1105	50	1	
112	Malappuram	Morayur	887	50	1	
113	Angadippuram	Vadakkangara*	879	50	1	
114	Perunthalmanna	Keezhattur	968	50	1	
115	Manjeri	Areekode	971	50	1	
116	Wandoor	Porur	1012	50	1	
117	Kondotty	Pallikkal	1084	50	1	
118	Nilambur	Nilambur	743	50	1	
119	Kalikkavu	Edappatta	853	50	1	
<b>Total</b>			<b>14895</b>	<b>750</b>	<b>15</b>	
120	Kozhikkode	Kunnumel	Maruthonkara	1045	50	1
121	Thuneri	Thuneri	1958	50	1	
122	Vatakara	Vatakara	2242	50	1	
123	Thodannur	Ayanjeri	1100	50	1	
124	Kozhikkode	Beypore	1029	50	1	
125	Kakkur	Kakkur	1224	50	1	
126	Kunnamangalam	Kumaranalloor	1005	50	1	
127	Koyilandy	Moodadi	1100	50	1	
128	Thikkodi	Payyoli	1117	50	1	
129	Perambra	Menhanyam	1100	50	1	
130	Koduvally	Koduvally	648	50	1	
131	Balusseri	Kottur	1106	50	1	
<b>Total</b>			<b>14674</b>	<b>600</b>	<b>12</b>	
132	Wayanad	Kalpetta	Kottathara	1420	50	1

	Sulthanbathery	Ambalavayal	1217	50	1	
134	Mananthavadi	Thavinhal	1084	50	1	
135	Panamaram	Panamaram	984	50	1	
	<b>Total</b>		<b>4705</b>	<b>200</b>	<b>4</b>	
136	Kannur	Payyannur	Karivellur	1242	50	1
137		Thaliparamba	Kurumathur	1215	50	1
138		Kalliassery	Kalliassery	1288	50	1
139		Kannur	Azheekode North	1140	50	1
140		Iriitty	Pattannur	1047	50	1
141		Irikkur	Irikkur	853	50	1
142		Edakkad	Kanjirode	859	50	1
143		Thalassery	Pinarayi	1040	50	1
144		Peravoor	Manathana	1185	50	1
145		Panoor	Mokeri	719	50	1
146		Kuthuparamba	Manantheri	1051	50	1
	<b>Total</b>		<b>11639</b>	<b>550</b>	<b>11</b>	
147	Kasargod	Nileshwar	Cheruvathur	2024	50	1
148		Kanhangad	Panayal	1028	50	1
149		Parappa	Belur	2114	50	1
150		Kasaragod	Patla	1096	50	1
151		Karadka	Kuttikole	2078	50	1
152		Manjeshwar	Pavoor	467	50	1
	<b>Total</b>		<b>8807</b>	<b>300</b>	<b>6</b>	
	<b>Grand Total</b>		<b>167200</b>	<b>7541</b>	<b>152</b>	

**Addl. Director of Agriculture (Pig)**  
**Directorate of Agriculture**  
**Vikas Bhavan, Thiruvananthapuram**