

**File No.ADFW/3788/2021-TD1**

**Directorate of Agriculture Development and Farmers' Welfare**

Vikas Bhavan, Thiruvananthapuram – 695033

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No:ADFW/3788/2021-TD1

Date:27/03/2022

Circular

Sub:- Scheme on Crop Health Management – 2021-22– Revised Working Instructions issued – reg.

Ref:- 1 ) G.O.(Rt).No717/17/AD, Thiruvananthapuram dated21.07.2017

2) Order No.TP(2)12929/19 dated 16/5/2019

3)Order no. ADFW 482 /2020-TP2dt.8.6.2020

4) Order No. ADFW/3150/2021-TP(2) dated 23/04/2021

5)Order no. ADFW/3924 /2021-TD-1dt.3.6.2021

6)Order.GO(Rt) 255/2022/AGRI Dated 26/03/2022

Government of Kerala, have accorded Administrative sanction for the implementation of the scheme 'Crop Health Management' as per reference 1st cited during the year 2017-2018 and Continuous Administrative sanction was accorded for implementation of the ongoing components of the scheme during the year 2019-20 vide reference 2nd cited and 2020-21 for continuing components vide reference 3rd cited.As per reference 4th cited, there is a budget provision of Rs.770.00 lakh for the scheme 'Crop Health Management' under the head of account 2401-00-107-78 (P) for the financial year 2021-22. Out of this Continuous Administrative sanction was accorded for components worth Rs.755.00 lakh (Rupees Seven hundred fifty five lakh only) and **working instructions** we issued vide ref 5 cited.

Vide Ref 6 cited Govt have accorded sanction for revising the financial targets that are earmarked for the components as detailed below within the sanctioned amount .

<u>Sl. No</u>	<u>Components of scheme</u>	<u>Amount (Rs.in Lakhs)</u>
<b>1</b>	<b>Pest forecasting and advisory services</b>	<b>118.6245</b>
a	Development of pests and disease surveillance system and advisories including use of GPS for pest and disease surveillance	88.12514
b	Establishment of new Plant Health Clinics at panchayath level (5 no) and strengthening of existing Plant Health Clinics.	30.49936
<b>2</b>	<b>Rodent control and Management of wild animal attack</b>	<b>55.00</b>
a	Rodent Control	25.00
b	Management of wild animal attack in cropped areas through technology support.	30.00

3	Development of 9 Parasite Breeding Stations	23.17901
4	Honorarium to District Plant Health Managers (DPHM) and Honorarium to Field Assistants ( FAs)	553.19649
5	Operational Expenses of KCPM	5.00
	<b>TOTAL</b>	<b>755.00</b> <b>(Rupees Seven Crores Fifty Five Lakh Only)</b>

**(1) PEST FORECASTING AND ADVISORY SERVICES(Rs.118.6245 lakhs)**

**(a) Development of Pests and Disease Surveillance System and Advisories including the use of GPS for pest and disease surveillance (Rs.88.12514 lakhs)**

The pest surveillance activities will be implemented in all the 152 blocks, in 282 Krishi Bhavans where plant health clinics are functioning. In addition to the existing 282 clinics, Plant Health Clinics will be established in the newly selected 5 (five) Krishi Bhavans. . Surveillance plots will be selected in all these 282 panchayaths (existing 282+ 5 new) @ 10 plots per Panchayath based on cropping pattern covering paddy, vegetables, coconut, pepper and banana. The number of surveillance plots will be reduced based on cropping pattern of the selected Panchayaths. Activities envisaged under the component such as surveillance units, training, software development, technical materials, plant health clinics and referral laboratories, community empowerment, farmer field schools, weather database recording and compilation and plant health advisory services will be continued in existing 282 Panchayaths and will be implemented in the newly selected 5 Panchayaths . Technical officers should visit the surveillance units on scheduled days. For paddy and vegetables weekly visit, for banana fortnightly visits and for coconut and pepper monthly visits are to be scheduled. The field assistants (pest scouts) should conduct the visit as per the schedule and record observations on pest/disease incidence. Observations should be noted in a register to be maintained at Krishi Bhavan level. The field level observations and data collected should be uploaded in the CPSS (Crop Pest Surveillance System) website through the GPS enabled hand held devices supplied for the purpose. Necessary support / training for uploading the data should be provided by the PGDPHM officers working in the block area. If needed, a district level training can be arranged for the officers in consultation with IITMK.

**a.1 Assistance to surveillance Units (Panchayat) (Rs.27.68 lakhs)**

Surveillance units will be established in 287 Panchayaths selected for the project during 2021-22 in farmer's field. The number of surveillance plots will be reduced based on cropping pattern of the selected panchayaths. Two plots each should be selected in the panchayath for the crops paddy, coconut, banana, pepper and vegetables if the area under these crops is above 5 ha. Plot size is 1 acre for rice & coconut, 50 cents for banana & pepper and 10 cents for vegetables. Thus total 10 plots can be selected in each panchayath and altogether 2870 plots can be selected from 287 panchayaths in 152 blocks of 14 districts. These 10 plots together will form the surveillance units in each panchayath. Farmers will be provided assistance @ Rs.1000/- per plot. Observation and data collection It should be ensured that the pest surveillance activities are undertaken as per schedule and under strict monitoring and evaluation by the district level officers. Technical officers should visit the surveillance units on scheduled days. For paddy and vegetables weekly visit, for banana fortnightly visit and for coconut and pepper monthly visits are to be conducted. The field assistants (pest scouts) should conduct visit as per schedule and record observations on pest/disease incidence.

## File No.ADFW/3788/2021-TD1

Observations are to be recorded in a Register which is maintained in the Krishi bhavan. The field level observations and data collected should be uploaded in the CPSS (Crop Pest Surveillance System) website through the GPS enabled hand-held devices supplied for the purpose. Necessary support/training for uploading data should be provided by the PGDPHM officers working in the block area. A district level training can also be arranged in consultation with IITMK if necessary.

### **a.2 Soil testing(Rs.0.15 lakhs)**

Fifty (50) soil samples should be collected from the newly selected surveillance plots from 5 panchayaths@10nos/panchayath based on which advisories are to be issued to farmers. Rs.300 can be expended for the analysis of each soil sample.

### **a.3 Internet charges for data uploading using hand held devices(Rs.8.05092 lakhs)**

The Agricultural Officers and Agricultural Assistants in charge of Plant health Clinics will be provided hand held devices to enable data collection and providing advisories to farmers. For facilitating the uploading of data from field itself, net connection will be allowed for the devices and the net charges will be reimbursed based on actual utilization limiting to Rs.200/- per month to the Agricultural Officers and Agricultural Assistants of 282 Panchayaths where Plant Health Clinics are already established.

### **a.4 Expenses for Rowing survey (Rs.12.57389 lakhs)**

In addition to fixed plot survey, rowing survey will be given emphasis covering all the hot spots of pests/ diseases in the block, based on the action plan and route-map finalized at block level. An amount of Rs.500/- per month can be expended for rowing survey to meet hire charges of vehicle based on actual expenses. The surveillance and rowing survey data will be analyzed and monthly reports at district level will be prepared with the help of District Plant Health Managers appointed on contract basis. For analyzing the data and preparation of district level reports, the service and technical support of PGDPHM officers should also be utilized.

### **a.5 Traveling expenses (Rs. 28.9201 lakhs)**

An amount of Rs.28.9201 lakhs is earmarked under this component.

### **a.6 Printing and publishing Krishi Bhavan, block and district level advisories (Rs.9.33993 lakhs)**

An amount of Rs.9.33993 lakhs is set apart for providing assistance to 282 plant health clinics for printing and publishing crop health advisories/pest bulletins. Crop health management advisories should be released according to necessity once in a month. It should be distributed to selected progressive farmers, farmer groups, clusters, Padasekhara Samithis, Panchayaths, Co-op-Societies, Agro Service Centers & other need based technology dissemination centers. Special attention should be given to deliver the material in good quality, both in terms of content and printing. Hard copies of the bulletins released should be submitted to the Directorate.

### **a.7 Other miscellaneous expenses (Rs.1.4103 lakhs)**

A Multi-Disciplinary District Team (MDDT) will be constituted with one specialist each from Entomology, Pathology & Soil Science, one representative from Krishi Vigyan Kendra, one representative from Research Station, Project Director ATMA & Deputy Director (E&T). MDDT proposed as a part of pest and disease surveillance could also be utilized for diagnostic services in Plant Health Clinics and development of advisories. The team will make need based field visit and recommend suitable remedial measures. It can be utilized to meet other miscellaneous expenses including expenditure in connection with field visit, group meetings etc. An amount of Rs.1.4103 lakhs is allotted under this component.

### **(b) Establishment of new Plant Health Clinics at panchayath level (5 no) and strengthening of existing Plant Health Clinics. (Rs.30.49936 lakhs)**

**b.1 Establishment of new 5 nos of Plant Health Clinics at panchayath level (Rs.25 lakhs)**

**File No.ADFW/3788/2021-TD1**

For establishing 5 new clinics, an amount of Rs.25.00 lakhs is set apart @ Rs.5.0 lakhs per clinic. The guidelines issued vide Circular No.TD(1)19742/14 dated 21/1/15 should be followed for smooth functioning of Plant health Clinics. The service of Field Assistants / Pest Scouts available under the scheme can be utilized for functioning of clinics. The charge of the clinic should be assigned to one Agricultural Assistant and he/she will assist the Agricultural Officer and will be responsible for functioning of the clinic in the absence of Agricultural Officer.

**b.2 Strengthening of existing Plant Health Clinics (5.49936 lakhs)**

An amount of Rs.5.49936 lakhs is set apart for providing additional support including infrastructure support and to meet critical gaps of existing plant health clinics and district referral clinics like maintenance cost, operational cost, charges for mobility etc. The amount will be allotted based on requirement

Component wise amount earmarked for implementation of Pest forecasting and advisory services is shown below

SI No	Activities	Units	Rate	Amount(Rs.in lakhs)	Remarks
1	Pest forecasting and advisory services- Rs.88.12514 lakhs				
a	Development of pests and disease surveillance system and advisories including use of GPS for pest and disease surveillance				
a1	Assistance to surveillance Units(Panchayat )	2768	1000	27.68	@10 plots/ panchayat for 287 KBs
a2	Soil testing	50	300	0.15	Five KBs newly selected (10 Nos of units per KB)
a3	Internet charge or data uploading using hand held devices	335	200/month for 12 months	8.05092	Reimburse the amount based on actual expenses limiting to

File No.ADFW/3788/2021-TD1

					Rs.200/- per month to AOs and AAs
a4	Expenses for Rowing survey	287	500/month for 12 months	12.57389	To meet hire charges  of vehicles based on actual expenses
a5	Traveling expenses	14 districts		28.9201	
a6	Printing and publishing Krishi Bhavan, block and district level  advisories	287units		9.33993	
a7	Other miscellaneous expenses (MDDT etc.)			1.4103	
b	Establishment of new Plant Health Clinics at panchayath level (5 no)and strengthening of existing Plant Health Clinics.				
b1	Establishment of new Plant Health Clinics  at panchayath level	5 no	Rs.5 lakh/clinic	25.00	
b2	Strengthening of existing Plant Health Clinics			5.49936	
			TOTAL	118.6245	

				lakhs	
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**2) RODENT CONTROL AND MANAGEMENT OF WILD ANIMAL ATTACK IN CROPPED AREAS THROUGH TECHNOLOGY SUPPORT (RS.55 LAKHS)**

**2)a Rodent Control (Rs.25.00 lakhs)**

Rodent control campaign will be continued during 2021-22 also with a budget outlay of Rs. 25.00 Lakhs for conducting 100 campaigns. It should be conducted on a campaign mode covering the whole area (panchayaths/ municipal wards etc.). Wide publicity should be given and rodent control campaign should be arranged with the involvement of all local self-government institutions, government and non-government institutions & agencies, people's representatives, public organizations, farmers' organizations etc. of the area. Rodent control campaigns will be conducted in the grama panchayath/municipality and corporation identified as hot spots for major communicable diseases (including creptospirosis) by 'Ardrum Mission' of Acts Health Department. An amount of Rs.25000/- is earmarked for each rodent control campaign, for the following activities.

Sl. No.	Items	Amount (Rs.)
1	Publicity charges	2000
2	Cost of rodenticides, baiting materials etc	23000
	<b>Total (for one campaign)</b>	25000
	<b>Grand Total ( for 100 campaigns)</b>	25.0 lakhs

**2)b Management of Wild Animal Attack In Cropped Areas Through Technology Support (Rs.30 lakhs)**

The farmers residing in the forest bordering areas are facing serious threats from wild animals. Presently elephants cause great amount of damage to field crops. Farmers use indigenous as well as technical methods to minimize the damages. Construction of trenches and electric fences is the common practice. But these methods are less effective. Bee hive fencing is a new method adopted to prevent the entry of elephants. An amount of Rs.30.00 lakhs is set apart for providing assistance to install bee hive fencing system around gardens near forest areas susceptible to wild elephant attack with the technical support of ATMA, Wayand. Other successful local systems and practices prevalent for protection against wild animals and birds would also be assisted on a project mode. An amount of Rs.30.00 lakhs is earmarked for this purpose.

**3. DEVELOPMENT OF NINE PARASITE BREEDING STATIONS (RS. 23.17901 LAKHS)**

There are nine Parasite Breeding Stations in the State engaged in the production of parasitoids of coconut leaf eating caterpillar. These are located in the districts of Thiruvananthapuram, Kollam, Alappuzha, Kottayam, Ernakulam, Thrissur, Malappuram, Kozhikode Kasaragode. The activities of these nine Parasite Breeding Stations will be strengthened by developing them as stocking centers for bio control agents as well as through promoting parasite breeding during 2020-21. The man power available at present in these stations is quite inadequate to enhance the activities. The present staff pattern comprises of only one technical assistant and one or two gardener cum lab cleaner. Hence the service of a technically qualified officer with B.Sc (Agri)

and one labourer is proposed in these stations on contract basis with an honorarium of Rs.25000/- per month and Rs.8000/- per month respectively. An amount of Rs. 23.17901 lakhs is set apart for providing the purchase of essential items and equipment for the production of bio control agents and other infrastructure development including renovation/ construction of building for the proper functioning of the PBS-and for providing honorarium to contract staff.

Financial allocation for nine Parasite Breeding Station are as follows

Sl.No	Parasite Breeding Station	Total(Operational expenses and Honorarium) Amount in lakhs
1	PBS , Thiruvananthapuram	0.30000
2	PBS, Kollam	4.87160
3	PBS, Alapuzha	3.43333
4	PBS, Kottayam	3.47526
5	PBS,Ernakulam	3.33330
6	PBS, Thrissur	1.91552
7	PBS, Malapuram	0.58000
8	PBS, Kozhikode	2.27000
9	PBS, Kasargod	3.00000
	TOTAL	23.17901

**4. HONORARIUM TO FIELD ASSISTANTS AND DISTRICT PLANT HEALTH MANAGERS - (Rs.553.19649 lakhs)**

Pest scouts working in the existing 282 Plant Health Clinics are to be paid honorarium@Rs.19,280/month and District Plant Health Managers posted in the districts and headquarters will be paid an honorarium of Rs.29,785/month as per G.O(Rt) No.34/2021/Agri dated 11/01/2021,Thiruvananthapuram.The pest scouts should conduct fixed plot survey based on visit schedule and also rowing survey at regular intervals, in the remaining Krishi Bhavans of the block. In addition, 05 pest scouts are to be posted in the 05 plant health clinics to be newly started during 2021-22.District Plant Health Managers posted in the districts and headquarters will be paid an honorarium of Rs.29,785/month. They will consolidate the progress reports of the scheme, do the documentation works and also give required technical support to the pest scouts.An amount of Rs.553.19649 lakhs is set apart for the purpose.

**5) OPERATIONAL EXPENSES OF KERALA CENTER FOR PEST MANAGEMENT, MONCOMBU, ALAPPUZHA.**

An amount of Rs.5.00 lakh is earmarked for the operational expenses of KCPM.

The targets assigned as per the working instructions issued earlier stands revised to this extend .

*Sd.*  
SONYA V R  
DIRECTOR(I/C)

For Director of Agriculture

To

- 1)All Principal Agricultural Officers and Project Directors, ATMA
- 2)Project Director, KCPM, Moncompu
- 3)Director General, NIPHM, Hyderabad
- 4)Director, IITM-K

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6. IT Cell for publishing in web site

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