

**CIRCULAR**

Sub: Agriculture Department - **Scheme for Development of Vegetables 2018-19 – Green Book Components** - Administrative Sanction accorded – Working Instructions issued – Reg.

Ref: 1. G.O. (Rt.) No. 118/2018/AGRI Thiruvananthapuram Dtd. 07/02/2018

2. G.O. (Rt.) No. 308/2018/AGRI Thiruvananthapuram Dtd. 05/04/2018

Vegetables are protective foods that form an integral part of our daily diet. Based on the recommendations of ICMR, the annual requirement of vegetables in the State works out to around 20 lakh MT. Realising the need for stepping up our indigenous production of vegetables as a step towards self reliance, the Department of Agriculture launched the massive 'Vegetable Development Programme' in the 12<sup>th</sup> Five Year Plan by ensuring involvement of all strata of the population. Vegetable Development Programme has ensured homestead vegetable cultivation in growbags and it has become a common features in majority of our households. In addition to this Vegetable Development Programme has promoted safe to eat vegetable production by following good agricultural practices in schools, Government and private institutions and this programme has created an awareness among school children.

Hence it is proposed to continue Vegetable Development Programme in 2018-19 also for popularizing safe to eat food production with the participation of households, educational and other institutions and farmers clusters and people of all walks of life. With this objective administrative sanction has been accorded for the vegetable development programme 2018-19 Green book components as per references cited above, with a financial outlay of ₹ 2817.5 lakh under the **Head of Account 2401-00-119-85 (P)**.

**Objectives**

1. Step up the domestic production of vegetables to meet our domestic requirement.
2. To materialise systematic vegetable production and distribution through a production plan chalked out on the basis of agroclimatic suitability, market understanding and demand across the State.

3. Promote a culture of self reliance and achieve self sufficiency in vegetable production.
4. Promote good agricultural practices in vegetable production.
5. Convince the farmers of the advantages of modern technology through trainings, field trials and exposure visits.
6. Ensure market for indigenous farmers' produce by strengthening block level federated organizations.
7. Acknowledge exemplary performance in vegetable production through awards and incentives.
8. Give thrust to cultivation of vegetable varieties that form part of daily diet of Keralites like bhindi, tomato, cowpea, chilies etc.
9. Popularise micro irrigation for effective use of water, which is a precious natural resource.
10. To realize the objectives of "Sujalam Suphalam" programme of Haritha Keralam Mission.

It is targeted to implement the scheme with cluster approach of Farmer's groups. Required support right from the block level, viz. Technical Support, Input Facilities, Marketing Linkages, Manpower Support and Capacity Building will be provided. The Component wise abstract of Budgetary Provision of ₹ 2817.5lakhs for Vegetable Development Programme 2018-19 is given below: -

Sl. No.	Items	Amount ₹ in lakhs
1	Homestead vegetable cultivation, including onam vegetable production (onathinu orumuram pachakkari)	600.00
2	Vegetable Cultivation through Institutions	197.00
3	Training, Awareness and Publicity	50.00
4	Cluster Development in Districts	1265.50
5	Technical Support and Contractual Appointments	100.00
6	Promotion of Zero Energy Cool Chambers for storage of harvested vegetables	200.00
7	Mini Polyhouses for vegetable cultivation	100.00
8	Supply of soil ameliorants including micro nutrients	305.00
<b>TOTAL</b>		<b>2817.50</b>

1) Homestead Vegetable Cultivation, Including Onam Vegetable Production  
(Onathinu Orumuram Pachakkari) (₹ 600.00 lakhs)

Sl. No	Sub- Component	Amount (₹ in lakhs)
1	Supply of Seedkits to Farmers through Krishi Bhavans	400
2	Supply of Vegetable Seedlings	200
<b>TOTAL</b>		<b>600</b>

a) Supply of Seedkits to Farmers through Krishi Bhavans

Scheme component aims to promote homestead vegetable cultivation by distributing assorted vegetable seed kits to farmers through Krishi Bhavans. Special drive for distribution of seed kits will be taken up under the banner Onathinu Orumuram Pachakkari. Seperate guidelines for the implementation of Onathinu Oru Muram Pachakkari will be issued. It is proposed to distribute **40 lakhs seedkits** worth ₹ 10/- each during 2018-19. An amount of **₹ 400.00 Lakhs** is earmarked for this purpose. The seed kits will be prepared and supplied by VFPCCK. The seed packets should contain a minimum of five varieties including trailing varieties.

Sl. No.	Districts	Vegetable Seedkits through Farmer's
1	Thiruvananthapuram	300000
2	Kollam	300000
3	Pathanamthitta	280000
4	Alappuzha	300000
5	Kottayam	300000
6	Idukki	300000
7	Ernakulam	300000
8	Thrissur	350000
9	Palakkad	300000
10	Malappuram	300000
11	Kozhikode	400000
12	Wayanad	140000
13	Kannur	280000
14	Kasaragod	150000
<b>TOTAL</b>		<b>4000000</b>

VFPCCK will complete the seed distribution before June 10<sup>th</sup> so as to get the harvest at onam season. They will arrange for seed testing with the Seed Inspection of Agriculture Department to ensure quality seed distribution. Principal Agricultural Officer, Palakkad will do necessary arrangement for the drawal of samples from Alathur seed processing plant during April, May & June 2018.

### b) Supply of Vegetable Seedlings

In addition to the above, **90.90 lakh seedlings** will be supplied to homesteads @ ₹ 2.20 per seedlings utilising an amount of **₹ 200.00 lakhs**. The seedlings will be produced and supplied by the block Level and panchayat level nurseries established under Vegetable Development Programme and by Department Farms. The quality of seedlings will be certified by the District level VDP Implementing Committee and monitored by CMD.

Sl. No.	Districts	No. of Seedlings (in lakhs)	Amount in lakhs
1	Thiruvananthapuram	8	17.6
2	Kollam	6	13.2
3	Pathanamthitta	4	8.8
4	Alappuzha	7.4	16.28
5	Kottayam	6	13.2
6	Idukki	6	13.2
7	Ernakulam	6	13.2
8	Thrissur	10	22
9	Palakkad	8	17.6
10	Malappuram	8	17.6
11	Kozhikode	2	4.4
12	Wayanad	12	26.4
13	Kannur	5.5	12.1
14	Kasaragod	2	4.4
<b>TOTAL</b>		<b>90.9</b>	<b>200</b>

The programme will be implemented observing the following general guidelines.

- Principal Agricultural Officers will instruct the Agricultural Officers to finalize the schools for the distribution of seedkits urgently. Krishi Bhavan wise No. of kits to be distributed will be intimated to the agencies concerned.

- Once the schools are selected preliminary meetings should be conducted to create awareness about the programme.
- District wise, Krishi Bhavan wise list of schools along with the name of teacher in charge should be submitted to Director of Agriculture.
- Principal Agricultural Officers should make arrangement for raising the crop at the appropriate season and ensure supply of all required inputs at the critical stages of the crop.
- The germination of the seeds supplied should be ensured and at least 80% germination should be assured.
- Once the seeds received, Agricultural Officers should ensure the germination of the seeds before distribution. If the germination is less than 80% the same should be reported to the agencies concerned and to the Director of Agriculture for replacement/proportionate price reduction/imposture of penalty to the supplying agencies.
- Seed distribution should be entrusted to a teacher in each school. The distribution details should be registered by the teacher-in-charge of the programme and kept in the school for future verification by the Agricultural Officer. Seed distribution details through Krishi Bhavans should also be registered.
- The programme should be given wide publicity and inaugural function should be arranged by involving VIPs like Ministers, MPs, MLAs and representatives of LSGs.
- Students in each selected school should be briefed on the cultivation aspects by the Agricultural Officer/Agricultural Assistant concerned. Interactive DVDs supplied during last year can be used for this purpose. Massive training programme is to be launched in each district for students, teachers, residence associations and rural households.
- It should be ensured through the Head of Institution that the programme is discussed in the school assembly.
- Periodical field verification should be done by Agricultural Assistant concerned with follow up action as and when needed, as per the directions given by the Agricultural Officer.
- The review of field level follow up should be conducted at Panchayath, Block and District level by the Officers concerned. Yield details should be collected and recorded at Krishi Bhavan level and submitted along with Monthly Progress Report.
- The Agricultural Officer and third party evaluation by CMD should report the germination percentage and quality of seedlings, based on which payment will be made

to the supplying agencies by the Principal Agricultural Officers / Director of Agriculture, as the case may be.

- A leaflet containing instructions for cultivation, supplied by Farm information Bureau, shall be given along with seeds/seedlings by the agencies concerned. The Agricultural Officer should ensure this before the supply.

- The amount related to seed kits will be drawn and disbursed by Director of Agriculture to the concerned agencies based on the invoice/bill submitted by them and assessment of germination by CMD.

- The details of women beneficiaries shall be maintained separately and included in the monthly progress reports.

- As far as possible 10 % of the kits and seedlings should be distributed to SC/ST students/women.

## 2) Vegetable Cultivation through Institutions (₹ 197.00 Lakhs)

Sl. No	Sub- Component	Amount (₹ in lakhs)
1	Vegetable Cultivation in Educational Institutions and Others	100
2	Functional Expenses	25
3	Irrigation Unit	5
4	Project Based Institutional Cultivation	67
<b>TOTAL</b>		<b>197</b>

To mobilize the student community into the field of agriculture, make them aware of safe to eat food production and to bring uncultivable lands in the government and private institutions under vegetable cultivation, this component provides assistance.

### A. Vegetable Cultivation in Educational Institutions and Others (₹ 130.00 lakhs)

#### a. Assistance for Cultivation (₹ 100.00 lakhs)

It is targeted to implement the activity in selected **2500 Educational Institutions and Other Institutions** in the state. Selected institutions should have sufficient and suitable land (at least 10 cents) to take up cultivation. A group of 20-25 students headed by a teacher will implement the activity. Required seeds will be supplied to them and training will be imparted by the extension functionaries of the Krishi Bhavan concerned. An

assistance of ₹ 4000/- will be given to each institution including the cost of seeds and towards the expense for taking up cultivation.

***Schools which are willing to participate in this programme, but do not have 10 cents of cultivable land, may be allowed to take up vegetable cultivation in the available land or in growbags, and assistance provided as per norms.***

Institutions will be selected by the Agricultural Officer/Assistant Director of Agriculture taking into account the availability of space and the willingness to take up cultivation. Potential areas with adequate irrigation facilities need be selected for institutional cultivation. Application should be collected from the head of institution. **Soil testing of institutions selected should be done prior to vegetable cultivation and necessary corrective methods should be followed if required. Krishi Bhavans may also prepare a calendar of activities for vegetable cultivation in institutions.** Each institution should have a layout plan for the vegetable garden prepared well in advance. Record of cultural operations, plant protection measures and yield data should be maintained along with the Inspection Report/Field Visits. Integration of organic pest and disease control measures should be ensured in the plots. The Agricultural Assistant will conduct frequent field visits and record the observations in the Field Book maintained in the school. It will be his responsibility to report the pest/disease/nutrient deficiency to the Agricultural Officer for giving necessary guidance. The Agricultural Officer will prepare the claim and submit to the ADA concerned and the funds will be released by ADA.

Principal Agricultural Officers of concerned districts will make arrangements for the supply of seeds from Department Farms, KSSDA, VFPC, KAU or farmer's seed. An amount of ₹ 100 Lakhs is earmarked for this component.

#### **b. Functional Expenses (₹ 25.00 lakhs)**

An assistance @ ₹ 1000/- per institution will be provided to the Nature Club/Eco Club/Green Cadet Corps etc. functioning in all the institutions, for meeting the expenses related to organizing training, documentation, field visits etc. The training should be conducted in a Progressive Farmer's Field in the Panchayath.

#### **c. Irrigation Units (₹ 5.00 lakhs)**

It is proposed to provide assistance for 50 irrigation units in institutions (well/pumpset or both) limited to a maximum amount of ₹ 10,000 per unit. The irrigation

units will be provided in a need based manner where water scarcity is severely felt. The head of the institution should submit an undertaking to the effect that the irrigation unit would be exclusively utilized for the cultivation of vegetables and that the expenditure for the annual maintenance of the unit would be met by the institution. A provision of ₹ 5.00 Lakhs is set apart for this component.

Sl. No	Districts	Vegetable cultivation in educational institutions & others		Functiona l expense	Irrigation unit	
		Physical	Financial (in lakhs)	Financial (in lakhs)	Physical	Financial (in lakhs)
1	Thiruvananthapuram	210	8.4	2.1	4	0.4
2	Kollam	310	12.4	3.1	5	0.5
3	Pathanamthitta	130	5.2	1.3	3	0.3
4	Alappuzha	130	5.2	1.3	3	0.3
5	Kottayam	210	8.4	2.1	4	0.4
6	Idukki	150	6	1.5	3	0.3
7	Ernakulam	210	8.4	2.1	4	0.4
8	Thrissur	210	8.4	2.1	4	0.4
9	Palakkad	210	8.4	2.1	4	0.4
10	Malappuram	160	6.4	1.6	4	0.4
11	Kozhikode	200	8	2.0	4	0.4
12	Wayanad	70	2.8	0.7	2	0.2
13	Kannur	200	8	2.0	4	0.4
14	Kasaragod	100	4	1.0	2	0.2
<b>Total</b>		<b>2500</b>	<b>100</b>	<b>25</b>	<b>50</b>	<b>5</b>

### **B. Project Based Cultivation by Institutions including NGO's (₹ 67.00 lakhs)**

It is proposed to undertake Project Based Vegetable Cultivation through institutions including NGOs. Institutions can be either private or public. The voluntary organizations/NGOs willing to take up vegetable cultivation in the premises of public and private institutions can also avail assistance under this component. Lumpsum provision of ₹ 67.00 lakhs is set apart for this activity.

Assistance will be provided in line with the existing rates of cost of cultivation, based on the project prepared exclusively for the purpose and funds will be released on first-come first-served basis. The minimum prescribed area for the project is 50 cents. Assistance for seeds and

other inputs, infrastructure facility, equipments machineries and land development works shall also be included limiting the amount to ₹ 2.00 Lakhs per project. While considering land development component the subsidy should not exceed 10% of the total project cost. Principal Agricultural Officer can sanction projects up to ₹ 1.00 lakh, and for projects above ₹ 1.00 lakh, sanction should be obtained from Director of Agriculture. The projects up to ₹ 1.00 lakh will be scrutinized at district level by a committee constituted by Principal Agricultural Officer concerned. The projects above ₹ 1.00 lakh recommended and received through Principal Agricultural Officer, will be scrutinized at the Directorate of Agriculture by an Evaluation Committee which will be chaired by Additional Director of Agriculture (Farms, Biogas & Vegetables) with Joint Director of Agriculture (VC) as the Convener. Funds will be released through the Principal Agricultural Officer concerned after formal sanction of the project proposal. **An agreement shall be executed with the institution stating that vegetable alone will be cultivated in the proposed area for next three years, without any further department assistance.**

Sl. No	District	Financial Target ( in Lakhs)
1	Thiruvananthapuram	7
2	Kollam	6
3	Pathanamthitta	5
4	Alappuzha	6
5	Kottayam	4
6	Idukki	3
7	Eranakulam	4
8	Thrissur	5
9	Palakkad	5
10	Malappuram	4
11	Kozhikode	4
12	Wayanad	4
13	Kannur	6
14	Kasaragod	4
<b>Total</b>		<b>67</b>

*Institutions, which are willing to participate in the programme, but do not have minimum 50 cents of cultivable land may be allowed to take up vegetable cultivation in the available land and assistance provided as per norms.*

Area under each crop and crop wise production details have to be maintained properly in a Register by the Institutions and Officials for items (A), and (B) above.

### 3) Training, Awareness & Publicity (₹ 50.00 Lakhs)

Sl. No	Sub- Component	Amount (₹ in lakhs)
1	Publicity/Campaign	30
2	Training Materials	7
3	Training Programmes	13
<b>TOTAL</b>		<b>50</b>

Upgradation of latest technology by the extension personnel is an essential factor for advocating the same to the farming community. This will also help to change the attitude, skill and knowledge of the farmer, which will lead to adoption of technology. This component envisages imparting training to the extension officers, documentation of events and activities taking place in the fields, providing publicity & conducting campaigns for creating awareness among the farming community and for providing training to the farmers on the latest technologies. Activity wise provision of funds is as given below. District Level & State Level Review Meeting/Workshops/Seminars are also envisaged as part of this component. As far as possible, the activities will be linked with the Haritha Keralam programme of Government of Kerala.

#### a. Publicity/Campaign (₹ 30.00 Lakhs)

Publicity will be given through print media, electronic media, posters, leaflets, AIR, FM channels, scroll news, video programme, publicity materials and other ways of publicity by Farm Information Bureau. An amount of ₹ 16.00 Lakhs is set apart to Farm Information Bureau.

Successful implementation of any activity depends on Campaigns/Seminars/Workshops/Review Meetings/Inauguration/Harvest Festivals conducted for its promotion. Advertisement will be done at rates approved by PRD. Special media programme will be formulated for serialized telecasting and broadcasting through Doordarshan, AIR and other selected visual media in consultation with the institutions for promotion of success stories on vegetable cultivation. Such Publicity/Campaign activities will be entrusted to FIB. **Farm**

**Information Bureau will submit a detailed plan in this line for the specified amount and Director of Agriculture will sanction the same based on feasibility.**

Publicity at district, block and Panchayat level will also be arranged by Principal Agricultural Officers for which ₹ 14.00 Lakhs is earmarked. **The success stories of all components of the programme will be given wide publicity through different media.**

**b. Training Materials (₹ 7.00 Lakhs)**

Technical materials on the cultivation aspects, INM & IPM, Hybrid Cultivation etc. will be prepared both as CD, Leaflets, Booklets, Posters etc. for the use of the cluster farmers and extension personnel as an aid in training. Technical inputs will be sourced from KAU, VFPCCK, Department of Agriculture etc. and preparation of CDs, Interactive DVDs and Printed Materials will be entrusted with FIB for which an amount of ₹ 7.00 lakhs is earmarked. The training materials to be prepared will be submitted by FIB as per the requirement placed by Vegetable Cell and the same will be finalized after discussion with the Director of Agriculture. Record Books for clusters, Minutes Book, Farm Card/Farm Diary format will also be distributed to the clusters. The training materials will be arranged by the Directorate. The training material distribution will be completed by July 2018.

**c. Training Programmes (₹ 13.00 Lakhs)**

Trainings and Skill Development Programmes for Extension Officers/farmers, schools, homesteads, clusters, municipalities, corporations, residents associations, districts and state level will be provided in each district. An amount of ₹ 13.00 lakhs is set apart for this purpose.

An amount of ₹ 1,000/- will be paid for each training. The skills required for vegetable cultivation, production of safe to eat vegetables, use of bio-pesticides and its advantages, aftercare and management for terrace cultivation etc. should be explained in detail in such trainings. The training targets given to the sub offices by Principal Agricultural Officer will be reported to the Director of Agriculture in due course. The trainings will be conducted at field level preferably in the field of a good farmer. Involvement of KVK/KAU/Best Performers of Department under VDP must be ensured as far as possible.

Priority will be given to give training on edible, traditionally available leafy vegetables to promote healthy living and supplementing the efforts to achieve self sufficiency in vegetable production.

The details of district wise targets are given below:

Sl. No.	Name of District	Publicity/Campaign (Amount in lakhs)	Training Material (Amount in lakhs)	Training Programmes	
				Phy.	Fin. (in lakhs)
1	Thiruvananthapuram	1	-	100	1
2	Kollam	1	-	80	0.8
3	Pathanamthitta	1	-	80	0.8
4	Alappuzha	1	-	125	1.25
5	Kottayam	1	-	100	1
6	Idukki	1	-	125	1.25
7	Ernakulam	1	-	80	0.8
8	Thrissur	1	-	120	1.2
9	Palakkad	1	-	100	1
10	Malappuram	1	-	100	1
11	Kozhikode	1	-	80	0.8
12	Wayanad	1	-	60	0.6
13	Kannur	1	-	80	0.8
14	Kasargode	1	-	70	0.7
15	FIB	16	7	-	-
<b>TOTAL</b>		<b>30</b>	<b>7</b>	<b>1300</b>	<b>13</b>

#### 4) Cluster Development in Districts (₹ 1265.50 lakhs)

Sl. No.	Sub Components	No./Unit	Rate (₹)	Amount (₹ in lakhs)
a.	Assistance for Clusters	320 Nos	75000 to 1.05 lakhs	270.00
b.	Assistance for Pumpsets	2000 Nos.	10000	200.00
c.	Assistance for PP Equipments	2000 Nos.	1500	30.00
d.	Haritha Fund	1000 Nos.	1000	10.00
e.	Innovation Fund	14 Districts	LS	45.00
f.	Soil Testing			0.00
g.	Solarisation			0.00
h.	Vegetable Cultivation in Fallow Land	185 Ha	30000	55.50
i.	Seed kit Distribution through Media	12 lakh seed kits	10	120.00
j.	Staggered Clusters	2176 ha	15000	326.40
k.	Supply of vegetable seed kits to NGOs	5 lakh nos.	10	50.00
l.	Production and distribution of seeds of traditional varieties			25.00
m.	Promotion of Nutrition Garden			25.00

n	Assistance to Agroservice Centres for establishment of nurseries, nutrition garden, mini polyhouses etc.			10.00
o.	Appointment of Field Assistants on Contract Basis	51 Nos.		98.60
	<b>TOTAL</b>			<b>1265.50</b>

**a. Clusters (₹ 270.00 lakhs)**

For promoting commercial cultivation of vegetables, minimum 15 farmers will be formed as a cluster to take up cultivation in 5 ha of vegetable crops, either in garden land or wetland, as per availability and suitability. This component will be implemented throughout the state. The cluster members should select vegetable crops and varieties suitable for their locality. It is proposed to organize **320 clusters** in all the revenue blocks in the State. This may be on continuous area based approach or on scattered area basis. Assistance will be given @ **₹ 75,000/- per cluster** with a minimum area of 5 ha. However, prorata assistance @ ₹15000/- per ha will be extended for commercial vegetable cultivation upto 7 ha. Assistance for a cluster cultivating vegetables in **7 ha** will be **₹1.05 lakhs**. Each cluster shall be registered with a President and a Convenor.

Assistance @ of **₹ 15000/ha** will be provided for cultivation of vegetables in **320 clusters** in an area of **1800 ha**, for which a provision of **₹ 270.00 lakhs** is earmarked. It should be ensured that cultivation in clusters is taken up in a minimum of 2-3 seasons, even if assistance is provided only for one season.

The amount will also be utilised for providing data entry and computer support to A grade/ super grade clusters/ other clusters with markets @ ₹ 1.50 lakhs per cluster in a need based manner.

The production will be streamlined based on a 52-week production plan and details made transparent through an e-portal mechanism to ensure effective marketing.

Poor performing clusters will be delinked from support and new clusters will be formed.

While forming new clusters, Young Farmers' Clusters (members below 40 years of age) and Students Clusters (NCC/ NSS/Green Cadet Corps etc) will be given priority, considering the key role of youth in grooming the future of Kerala Agriculture.

Space availability in young rubber plantations may also be considered on merit while forming new clusters. A separate programme for inter cropping in immature rubber holdings may be formulated at district level based on feasibility, linked to clusters.

### **Maintenance of Model Plots within Clusters**

One **Model Plot** per block will be maintained within a cluster under the direct supervision of Assistant Director of Agriculture/Agricultural Officer concerned, so as to have a demonstrative value for the programme that can be replicated. In such model plots, all technologies will be adopted and innovations practiced. Activities under ATMA / ATMA plus may be linked with such plots. Preference will be given for establishing demonstrations / FFS under ATMA in model plots. Separate documentation of such model plots will be made at district level.

#### **b. Pumpsets (₹ 200.00 lakhs)**

For ensuring irrigation, assistance will be given to portable/fixed pumpsets (1.5 HP) with accessories @ ₹ 10,000/unit (50% cost of pumpset with accessories or ₹ 10,000/unit whichever is less). The cluster member can also avail this assistance and the pumpset should be used for common activities as well. Provision for **2000 pumpsets** with a financial outlay of ₹ 200.00 lakhs is earmarked. Assistance will be provided irrespective of the power source. If needed, assistance for pumpsets of 1 HP can also be provided subject to approval by Block Level/District Level Committee for Vegetable Development Programme.

#### **c. Plant Protection Equipments (₹ 30.00 lakhs)**

For effective and timely pest and disease management, availability of plant protection equipments with the cluster members is a must. To ensure this, the cluster member can avail assistance for purchasing knapsack or power sprayers required for the cluster, @ ₹ 1500/unit. It is targeted to distribute **2000 Plant Protection Equipments** and for this ₹ 30.00 Lakhs is set apart.

#### **d. Haritha Fund (₹ 10.00 lakhs)**

The clusters should be of cohesive in nature and to meet the contingent expenses in cultivation, insitu training, regular interactive sessions, expenses to meet a common issue etc., an amount of ₹ 1,000/- per cluster will be provided. The cluster convener is

authorized to spend the amount based on the need of the cluster members. **1000 clusters** will be provided with Haritha Fund and for this an amount of **₹ 10.00 lakhs** is earmarked.

**e. Innovation Fund (₹ 45.00 Lakhs)**

An amount of **₹ 45.00 Lakhs** will be provided as untied fund to districts for taking up innovative activities required in the cluster and to fill any critical gap in the vegetable production programme, including value addition and marketing. A lumpsum provision of ₹ 3 lakhs per district is earmarked for this activity and allocation of funds to the blocks will be made based on their proposal on a priority basis. **The block level proposals will be scrutinized and approved by the District Level Committee and sanction accorded by the Principal Agricultural Officers concerned based on which funds will be released.** An amount of **₹ 45.00 Lakhs** is earmarked for this component.

**f. Soil Testing**

Soil Testing should be done in all clusters before the cultivation. Soil sample collection in clusters, schools and institutions by Field Assistants should be completed by May 15<sup>th</sup> . The Principal Agricultural Officer will give instructions to the DSTLS/MSTLS to complete the analysis from clusters in a time bound manner so as to give the results before June 15<sup>th</sup> .

In clusters vegetable cultivation should be planned in such a way so that the harvest coincides with festive seasons (Onam, Vishu etc.). Pest and disease forecasting may also be carried out and information on the measures to be taken in advance may be passed on to the clusters in time.

**g. Solarisation**

Solarisation to be promoted in clusters to reduce disease incidence. Demonstration on solarisation should be conducted in 'A' Grade Clusters utilizing funds given as assistance.

**Note:** Out of total subsidy per hectare 25% is earmarked for the promotion of inputs for safe food production and for promoting good agricultural practices. Bio-control agents, pheromone traps, area wide IPM and bio-fertilizers will be included in the 25% earmarked

amount of the subsidy component. Another minimum 15% will be insisted for lime application. Certificate to this effect should be provided in the claim by the Agricultural Officer.

### DISTRICT WISE TARGETS

Sl. No	Name of District	Cluster @ 0.75/Units		Additional Area for clusters (ha)		Pumpsets @ ₹ 10000/-		PP Equipments @ ₹ 1500/-		Haritha Fund		Innovation Fund
		Phy.	Fin. (₹ in lakhs)	Phy.	Fin. (₹ in lakhs)	Phy.	Fin. (₹ in lakhs)	Phy.	Fin. (₹ in lakhs)	Phy.	Fin. (₹ in lakhs)	Fin. (₹ in lakhs)
1	TVM	25	18.75	10	1.5	150	15	150	2.25	75	0.75	3
2	KLM	20	15	15	2.25	140	14	140	2.1	60	0.6	3
3	PTH	20	15	10	1.5	130	13	130	1.95	60	0.6	3
4	ALP	25	18.75	15	2.25	200	20	200	3	75	0.75	3
5	KTM	23	17.25	10	1.5	150	15	150	2.25	100	1	3
6	IDK	23	17.25	20	3	150	15	150	2.25	65	0.65	3
7	EKM	22	16.5	10	1.5	125	12.5	125	1.875	65	0.65	3
8	TCR	26	19.5	20	3	150	15	150	2.25	80	0.8	3
9	PKD	27	20.25	20	3	140	14	140	2.1	80	0.8	3
10	MLP	25	18.75	20	3	150	15	150	2.25	75	0.75	3
11	KZD	18	13.5	10	1.5	150	15	150	2.25	60	0.6	3
12	WYN	20	15	10	1.5	120	12	120	1.8	65	0.65	3
13	KNR	26	19.5	15	2.25	120	12	120	1.8	80	0.8	3
14	KSD	20	15	15	2.25	125	12.5	125	1.875	60	0.6	3
15	HQ					-	-	-	-	-	-	3
<b>TOTAL</b>		<b>320</b>	<b>240</b>	<b>200</b>	<b>30</b>	<b>2000</b>	<b>200</b>	<b>2000</b>	<b>30</b>	<b>1000</b>	<b>10</b>	<b>45</b>

#### h. Vegetable Cultivation in Fallow Land (₹ 55.50 Lakhs)

Suitable area which is kept fallow for the last 3 years is selected and land preparation is done and cultivation of vegetable crop is undertaken. Fallow land, where vegetable cultivation can be done has to be identified. The cultivation can be undertaken through the individual farmers, landless agricultural labourers, farmer groups, youth clubs and any other organizations who are willing to undertake fallow land cultivation. An amount of ₹ 30,000/- per hectare will be given as assistance for undertaking one hectare of fallow land cultivation. (₹ 25000/ha for cultivators and ₹ 5000/ha for land owners). The assistance for cultivators will be for the activities from land preparation to harvest. Assistance will be provided to the owners of the land for giving the land for cultivation. In an area of 185 Ha of fallow land, vegetable cultivation will be undertaken

for which ₹ 55.50 Lakhs is earmarked. Vegetable cultivation can be done in fallow either owned by the cultivators or in leased lands. **As far as possible SC/ST Farmers/Groups should be given preference for this programme.**

The details of assistance proposed and district wise targets are given below:

Sl. No.	Item	Assistance per Hectare (₹)	Area (Ha)	Total Amount (₹ in Lakhs)
1.	Cultivation Assistance	25000	185	46.25
2.	Lease Value of the Land	5000	185	9.25
<b>TOTAL</b>		<b>30000</b>	<b>185</b>	<b>55.50</b>

The details of district wise targets are given below:

Sl. No.	Name of District	Phy. Target (Ha)	Fin. Target (in lakhs)
1	Thiruvananthapuram	14	4.2
2	Kollam	14	4.2
3	Pathanamthitta	13	3.9
4	Alappuzha	15	4.5
5	Kottayam	10	3
6	Idukki	13	3.9
7	Ernakulam	10	3
8	Thrissur	17	5.1
9	Palakkad	13	3.9
10	Malappuram	15	4.5
11	Kozhikode	13	3.9
12	Wayanad	10	3
13	Kannur	16	4.8
14	Kasaragod	12	3.6
<b>TOTAL</b>		<b>185</b>	<b>55.5</b>

**i. Seed kit Distribution through Media (₹ 120.00 lakhs)**

Vegetable seedkits worth ₹ 10/- with assorted seeds will be distributed through publications. It is proposed to distribute **12 lakh kits** under the programme with a provision of **₹ 120.00 lakhs**.

The following guidelines will be followed while implementing this component.

- Seminars should be arranged in each district and the function should be documented by media.

- The list of beneficiaries along with address should be transmitted to Principal Agricultural Officers by the bureau under intimation to VFPCCK.
- The address of bureaus of both media in each district should be communicated to Principal Agricultural Officers /VFPCCK
- Remarks of Centre for Management Development regarding last year's scheme should be considered while implementing.
- Documented report should include functions and training sessions arranged in connection with the programme, number and name of schools involved with No. of students along with data on area, production and productivity.
- The programme should be closely monitored by the Principal Agricultural Officers concerned with state level monitoring by Additional Director (Farms, Biogas and Vegetables).
- CMD should monitor the programme and submit reports.

**j. Staggered Clusters (₹ 326..40 lakhs)**

Staggered clusters on area/individual basis can be implemented in an area of **2176 ha** with a financial outlay of **₹ 326.40 lakhs**. An assistance of **₹ 15000/ha** will be provided. Staggered Clusters are allotted over and above the Potential Clusters sanctioned vide item 6 (a). **The 5 ha upper limit of clusters will be relaxed** and eligible assistance will be provided to the area cultivated in the clusters also. Minimum area of 0.1 ha (25 cents) should be provided. Field Level Officials will identify the areas and achieve the targets in full. Clusters of women youth and students will be promoted giving priority.

Joint Liability Groups of women /Youth /students can be formed, federated and registered under this component to facilitate direct marketing of their produce with the help of LSGDs.

Sl. No.	Name of District	Phy. Target (Ha)	Fin. Target (in lakhs)
1	Thiruvananthapuram	128	19.2
2	Kollam	123	18.45
3	Pathanamthitta	100	15
4	Alappuzha	220	33
5	Kottayam	130	19.5
6	Idukki	240	36

7	Ernakulam	70	10.5
8	Thrissur	190	28.5
9	Palakkad	275	41.25
10	Malappuram	140	21
11	Kozhikode	100	15
12	Wayanad	130	19.5
13	Kannur	190	28.5
14	Kasaragod	140	21
<b>TOTAL</b>		<b>2176</b>	<b>326.4</b>

Vegetable cultivating in young rubber plantation below 3 years can be assisted through this component.

**k. Supply of Vegetable Seed kits through NGOs and Other Groups (₹ 50.00 Lakhs)**

This component aims at the supply of vegetable seed kits through Krishi Bhavans to Non Governmental Organizations (NGOs) working in the Agriculture sector for an amount of **₹ 50.00 lakhs (Rupees Fifty lakhs only) @ ₹ 10/- per kit**. The objectives of the programme are:-

- To supply **5 lakh assorted vegetable seed kits** to NGOs to be distributed free of cost to members under the banner Onathinu Oru Muram Pachakkari.
- To popularize the concept of Homestead Vegetable Cultivation.
- To produce safe-to-eat vegetables at homesteads.
- To spread organic farming practices among general public.
- To impart knowledge about vegetable cultivation among young generation.
- To promote the concept of 'Family Farming'.

The project is proposed to be implemented throughout the state. As part of the programme, 5 lakhs vegetable seed kits will be distributed through Krishi Bhavans to NGOs working in agricultural activities free of cost. Number of kits supplied should be based on the membership strength of each group. Seed kits containing seeds of 5-6 types of vegetable commonly cultivated like Bhindi, Amaranthus, Cowpea, Chilly, Bittergourd, Snakegourd etc., in homesteads, at a cost of ₹ 10/- per kit including packing.

**Seed kits will be supplied free of cost and other inputs should be procured by the beneficiary himself. Training on vegetable cultivation giving stress to organic methods and seed production should be conducted at Krishi Bhavan level for the members of the organization based on their request.** Cultivation can be taken up individually or in groups depending on the availability of land, irrigation facility etc. A Monitoring Committee consisting of Krishi Bhavan Officials, People's and Farmer's

representatives should be constituted to evaluate the success of the programme by conducting field visits at random. Agricultural Officers should ensure that duplication of supply of seeds will not happen under different schemes. The field level follow up should be done by the Agricultural Assistant of that area and supervised by Agricultural Officers.

The details of district wise targets are given below:

Sl. No.	Name of District	Phy. Target	Fin. Target (in lakhs)
1	Thiruvananthapuram	70500	7.05
2	Kollam	45000	4.50
3	Pathanamthitta	40000	4.00
4	Alappuzha	40000	4.00
5	Kottayam	30000	3.00
6	Idukki	35000	3.50
7	Ernakulam	30000	3.00
8	Thrissur	62850	6.285
9	Palakkad	30000	3.00
10	Malappuram	30000	3.00
11	Kozhikode	30650	3.065
12	Wayanad	10000	1.00
13	Kannur	36000	3.60
14	Kasargode	10000	1.00
<b>TOTAL</b>		<b>500000</b>	<b>50.00</b>

## 1. Production and distribution of seeds of traditional varieties (₹ 25.00 lakhs)

### a) Augmenting seed production of traditional varieties (₹ 20.00 lakhs)

There are many traditional varieties of vegetables in our State which are nutritive, have medicinal value and good for health. It is proposed to multiply and popularise such traditional vegetable varieties of our State to promote their use in our daily life in view of their nutritive value and health benefits and also to prevent chances of their extinction. Some of the traditional vegetable varieties are Vengeri vazhuthana, Onattukara paval, Mararikulam vazhuthana, Anakkombu kothamara, Idukki elachembu, Nithya vazhuthana, Vallicheera, Vallipayar, Chathurapayar etc.

The project aims at the conservation, multiplication and distribution of the seeds of location specific/ ethnic traditional vegetable varieties including local leafy vegetables, so as to popularise their use among the common man for healthy living and reducing susceptibility to diseases. Multiplication of varieties in traditional areas, their use and exchange will be promoted. The programme is proposed to be implemented on a project mode through A

grade clusters or other well performing clusters or in staggered clusters by providing additional assistance of ₹ 25000/- per ha. The pure seeds available with traditional farmers will be utilized for this purpose. This activity will be taken up by the clusters concerned in addition to their normal activities. It is proposed to implement this programme in an area of 80 ha. An amount of ₹ 20.00 lakhs is set apart for this purpose. The department will facilitate procurement and distribution of seeds produced, so as to popularize the use of traditional vegetables.

The details of district wise targets are given below:

Sl. No.	Name of District	Phy. Target (Ha)	Fin. Target (in lakhs)
1	Thiruvananthapuram	5	1.25
2	Kollam	3	0.75
3	Pathanamthitta	5	1.25
4	Alappuzha	5	1.25
5	Kottayam	5	1.25
6	Idukki	5	1.25
7	Ernakulam	5	1.25
8	Thrissur	10	2.5
9	Palakkad	6	1.5
10	Malappuram	9	2.25
11	Kozhikode	5	1.25
12	Wayanad	7	1.75
13	Kannur	5	1.25
14	Kasargode	5	1.25
<b>TOTAL</b>		<b>80</b>	<b>20</b>

b) Providing assistance for geographic indication of traditional varieties (₹5.00 lakhs)

Geographic indication of traditional varieties will fetch value and popularity to the local produce across the globe. Hence it is proposed to provide assistance for obtaining geographic indication for traditional vegetable varieties of Kerala. An amount of ₹5.00 lakhs is earmarked for this purpose.

**m. Promotion of Nutrition Garden (₹25.00 lakhs)**

a) Distribution of Saplings (₹20.00 lakhs)

Inclusion of perennial vegetables such as bread fruit, muringa, agathy, curry leaves etc in our daily diet can ensure healthy living and reduce the occurrence of life style diseases owing to their nutritive value alongwith palatability. Considering this, it is

proposed to popularise such varieties among the masses, by distributing sapling kits of the above varieties to raise nutrition garden in homesteads. A kit containing planting materials of 5- 6 varieties costing ₹100/- will be distributed to households at 50% subsidy. It is proposed to produce distribute 20000 perennial vegetable sapling kits during 2018-19 through department farms, utilising an outlay of **₹ 20.00 lakhs**.

The details of district wise targets are given below:

Sl. No.	Name of District	Phy. Target	Fin. Target (in lakhs)
1	Thiruvananthapuram	3000	1.5
2	Kollam	2000	1
3	Pathanamthitta	2000	1
4	Alappuzha	4000	2
5	Kottayam	3000	1.5
6	Idukki	5000	2.5
7	Ernakulam	3000	1.5
8	Thrissur	4000	2
9	Palakkad	4000	2
10	Malappuram	2000	1
11	Kozhikode	2000	1
12	Wayanad	2000	1
13	Kannur	2000	1
14	Kasargode	2000	1
<b>TOTAL</b>		<b>40000</b>	<b>20</b>

b) Commercial cultivation of perennial vegetables (₹5.00 lakhs)

Perennial vegetables such as breadfruit, muringa, agathi, curry leaves, raw papaya, sweet lime, lemon etc form an integral part of the daily diet of common Keralite. However considerable share of our requirement of these vegetables is sourced from outside the State. The fact that such imports are pesticide ridden poses high health risk to the consumer. Hence it is proposed to promote commercial cultivation of such varieties in our State in appropriate locations in a scientific manner to meet our domestic requirement. This programme is proposed to be implemented through A grade clusters or other well performing clusters by providing additional assistance of **₹20000/- per ha**. This activity will be taken up by the clusters concerned in addition to their normal activities. A minimum plot size of 50 cents is proposed for this purpose. An amount of **₹5.00 lakhs** is

earmarked for implementing this component in an area of 25 ha.

Sl. No.	Name of District	Phy. Target (Ha)	Fin. Target (in lakhs)
1	Thiruvananthapuram	2	0.4
2	Kollam	1	0.2
3	Pathanamthitta	1	0.2
4	Alappuzha	2	0.4
5	Kottayam	1	0.2
6	Idukki	2	0.4
7	Ernakulam	2	0.4
8	Thrissur	3	0.6
9	Palakkad	2	0.4
10	Malappuram	2	0.4
11	Kozhikode	2	0.4
12	Wayanad	2	0.4
13	Kannur	2	0.4
14	Kasargode	1	0.2
<b>TOTAL</b>		<b>25</b>	<b>5</b>

**n. Assistance to Agroservice Centres for establishment of nurseries, nutritional garden, mini polyhouses etc (₹10.00 lakhs)**

Scarcity of skilled labour for agricultural operations is a major constraint facing Kerala Agriculture sector, in both rural and urban areas. Agroservice centres functioning under the department have emerged as an effective solution to this problem. Agroservice Centres are functioning in both rural and urban areas and they have earned the credibility of executing task assigned to them in a time bound manner.

Considering the above facts, it is proposed to entrust promising agroservice centres in the establishment of nurseries, multiplication and distribution of seeds of traditional varieties of vegetables and also of saplings of perennial vegetables for distribution for raising nutrition gardens. A maximum amount of ₹1.00 lakh per agroservice centre will be provided for setting up nurseries or strengthening existing nurseries, subject to the condition that 25000 planting materials will be produced and distributed to the beneficiaries. Preference will be given to agroservice centres with existing nurseries, based on performance evaluation. The amount will also be utilised for providing funds to trained Agro Service Centres for setting up of mini polyhouses in farmers plots. It is proposed to provide project based assistance to agroservice centres under this component, utilising an amount of **₹10.00 lakhs**.

The details of district wise targets are given below:

Sl. No.	Name of District	Phy. Target	Fin. Target (in lakhs)
1	Thiruvananthapuram	1	1
2	Kollam	-	-
3	Pathanamthitta	1	1
4	Alappuzha	1	1
5	Kottayam	-	-
6	Idukki	1	1
7	Ernakulam	1	1
8	Thrissur	1	1
9	Palakkad	1	1
10	Malappuram	1	1
11	Kozhikode	1	1
12	Wayanad	-	-
13	Kannur	1	1
14	Kasargode	-	-
<b>TOTAL</b>		<b>10</b>	<b>10</b>

**o. Appointment of Field Assistants on Contract Basis (₹ 98.60 lakhs)**

Fifty One (51) nos. of Field Assistants will be appointed on contract basis under Vegetable Development Programme during 2018-19 with a financial outlay of ₹ 98.60 lakhs.

***Field Assistants are posted:-***

- To provide technical support to Vegetable Development Programme particularly for terrace cultivation, homestead cultivation and district clusters.
- To act as a nodal points in the implementation and follow up of Vegetable Development Programme.

**General Guidelines**

Field Assistants with VHSE (Agriculture) will be posted in blocks and Corporations for a period of 12 months on contract basis. They will be provided with phone facilities and their name and phone number should be published for locals to contact. The VHSE (Agri.) hands will be paid remuneration of ₹ 15,000/- per month for the prescribed duration.

The VHSE (Agri.) hands will do the needful field visits for all the components of Vegetable Development Programme especially Urban Clusters, Schools and District Clusters

Arrange inputs, preferably bio inputs and conduct follow up action for all the components of Vegetable Development Programme.

As the scheme is a continuing one, FA's already recruited may be reappointed for one year upto 31<sup>st</sup> March 2019, if their work is satisfactory. The performance of the existing staff should be assessed by Principal Agricultural Officer at district level. They may be given one day break in service and may be appointed with fresh appointment order. New agreement is to be executed and copy to be sent to the Directorate. New Field Assistants can also be posted by Principal Agricultural Officers concerned through walk-in interview at District Level if the service of existing staffs are not satisfactory. They may also be appointed from the selection list if one is already available in the district. The following directions are issued regarding the duties and responsibilities of Field Assistants.

- Field Assistants in general will have a jurisdiction of more than one block. Hence their schedule of attendance in each block and Krishi Bhavans indicating details of field visits should be chalked out well in advance by Principal Agricultural Officers and the same should be communicated to the Assistant Director of Agriculture/Agricultural Officers concerned. The schedule should be followed strictly. Field visit schedules should be prepared and given to Field Assistants and it should be monitored by the ADAs concerned.
- There should be a contract signed by the contract staff on a stamp paper worth ₹ 150/- duly validated by the Appointing Authority
- Field Assistants should undertake follow up action for all components of Vegetable Development Programme with special attention to :-
  - (a) Urban Clusters
  - (b) District Clusters
  - (c) Homestead Cultivation through School Students and
  - (d) Vegetable Cultivation in Institutions.
- Arrange awareness camps in schools and residential associations.
- Arrange inputs like seeds, seedlings, biopesticides etc. under recurring expenditure for Urban Clusters laid out during previous years through rigorous follow-ups and contacts.
- To give leadership in the layout of vegetable gardens in schools and homesteads.
- Organize the farmers for cluster based cultivation.
- Field Assistants should have frequent contacts with Agricultural Officers and Assistant Director of Agriculture concerned.

- The Field Assistants should maintain work diary recording the field visits conducted and get it approved by the Assistant Director of Agricultures concerned on monthly basis.
- They should bring the field problems on time to the notice of the Agricultural Officers concerned. For that necessary field trainings should be arranged at district level with the help of KVK.
- Field Assistants should maintain a register in the respective blocks detailing the field problems identified/reported and remedial measures suggested which should be duly/periodically verified by the supervising officer.
- Problems which need further attention should be brought during the meeting and field visit of Multi Disciplinary Team arranged at district level. A monthly report on field problems identified and solved or referred for MDT should be submitted by the Field Assistant to the DDA (NWDPRRA) of the district.
- The contact No. of all Field Assistants should be available at District HQ, Blocks and the respective Krishi Bhavans. The same should be communicated to Director of Agriculture for monitoring at State Level.
- Further specific directions regarding the duties of Field Assistants in the respective blocks should be assigned by the Principal Agricultural Officers and periodical review reports on their activities should be furnished to Director of Agriculture without fail.

### Financial Assistance

It is proposed to provide technical support as detailed below with a financial provision of ₹ 98.6 lakhs.

Sl. No.	Particulars	Nos.	Rate/Month (₹)	Amount (₹ in lakhs)
1.	Field Assistants attached with Blocks & Corporations for 12 Months	51 Nos.	15,000	91.80
2.	Other Allied Expenses like Actual Travel Expenses (₹ 300/-), Telephone Charges, Tools/Equipments (₹ 117/-) as per need for 12 Months	51 Nos.	417	2.55
3.	L.S		-	4.25
<b>TOTAL</b>				<b>98.60</b>

The details of district wise targets are given below:

Sl. No.	Name of District	Phy. Target (No.)	Fin. Target (in lakhs)		Total Amount Allotted (₹ in Lakhs)
			Remuneration for FAs	Other Allied Expenses including Monthly TA+Phone Charges	
1	Thiruvananthapuram	3	5.4	0.15	5.55
2	Kollam	4	7.2	0.2	7.39
3	Pathanamthitta	3	5.4	0.15	5.55
4	Alappuzha	4	7.2	0.2	7.39
5	Kottayam	3	5.4	0.15	5.55
6	Idukki	4	7.2	0.2	7.39
7	Ernakulam	4	7.2	0.2	7.39
8	Thrissur	6	10.8	0.3	11.09
9	Palakkad	5	9	0.25	9.24
10	Malappuram	4	7.2	0.2	7.39
11	Kozhikode	3	5.4	0.15	5.55
12	Wayanad	3	5.4	0.15	5.55
13	Kannur	3	5.4	0.15	5.55
14	Kasaragod	2	3.6	0.1	3.70
15	HQ				4.25
<b>TOTAL</b>		<b>51</b>	<b>91.8</b>	<b>2.55</b>	<b>98.6</b>

#### 5) Technical Support & Contract Appointment (₹ 100.00 lakhs)

Sl. No	Sub- Component	Amount (₹ in lakhs)
1	Head Quarters	29.92
2	Districts	70.08
<b>TOTAL</b>		<b>100</b>

For ensuring successful implementation of the project activities, technical support is envisaged at District and State level.

#### a) At Headquarters (₹ 29.92 lakhs)

In order to have a concurrent evaluation of project implementation, timely follow up, monitoring and reporting sufficient manpower support will be provided to strengthen the Vegetable Cell. For this, services of two personnel with Degree in Agriculture and the services of 3 data entry operators for 12 months will be made available. As the scheme is a continuing one, DEO's already recruited may be reappointed for one year upto 31<sup>st</sup> March 2019, if their work is

satisfactory. They may be given one day break in service and may be appointed with fresh appointment order. New agreement is to be executed. New Data Entry Operator's will be posted by Director of Agriculture through walk-in interview or from the selection list if available.

In addition, technical guidance from an Expert Group of scientists from KAU in 5 disciplines viz. Entomology, Pathology, Plant Breeding, Agronomy and Management will be availed. A provision of ₹ 29.92 lakhs for the field visits by Expert Team, operational expenses and documentation is earmarked. This provision is for meeting the expenses in connection with field visits and sitting fee of the expert team. Details are as given below:

Sl. No.	Particulars	Rate/Month (₹)	No.	Period	Total Amount (₹ in lakhs)
1.	Technical Assistants with Degree in Agriculture	39,500	2	12 months	9.48
2.	L. S		2		0.31
3.	Operational Expenses				6.61
4.	Documentation expenses (Photocopier/Digi-cam/PCs and allied Stationery, Office Furniture etc.)	LS			6.00
5.	Expert Group from KAU @ 5,000/- each for 2 sittings	5,000	2		0.10
6.	Data Entry Operators	19,500	3	12 months	7.02
7.	L.S				0.40
<b>TOTAL</b>					<b>29.92</b>

**b) At Districts (₹ 70.08 lakhs)**

At the district level, a Multi Disciplinary Team (MDT) will be constituted with Scientists and Department Officials in each district for providing technical support to solve field problems. Meeting of the MDT should be conducted prior to each season to decide the technical strategies to be adopted in the district based on the experiences in previous years.

Services of 2 Data Entry Operators each will be provided at district level on contract basis for tenure of 12 months. As the scheme is a continuing one, DEO's already recruited may be reappointed for one year upto 31<sup>st</sup> March 2019, if their work is satisfactory. They may be given one day break in service and may be appointed with fresh appointment order. New agreement is

to be executed and copy furnished to this Directorate. New Data Entry Operator's will be posted by Principal Agricultural Officers concerned through walk-in interview at District Level or from the selection list if it is already available.

A provision of ₹ 70.08 lakhs is set apart for providing technical support at district level.

Details are furnished below:-

Sl. No.	Particulars	Rate (₹)	No.	Period	Amount (₹ in lakhs)
1.	MDT (KAU) @ 2 sittings in each district @ 2000/sitting *	2000	28		0.56
2.	Data Entry Operators @ 2 Nos. in each district @ ₹ 19,500/ month	19,500	28	12 months	65.52
3.	L.S		LS		4.00
<b>TOTAL</b>					<b>70.08</b>

\* No. of sittings can be increased within the limits of the sanctioned amount and expenses related cost of control measures advised by the MD Team can also be met with from this amount.

Sl. No.	Name of District	Amount for MDT (in lakhs)	Total (in lakhs)
1.	Thiruvananthapuram	0.04	4.68
2.	Kollam	0.04	4.68
3.	Pathanamthitta	0.04	4.68
4.	Alappuzha	0.04	4.68
5.	Kottayam	0.04	4.68
6.	Idukki	0.04	4.68
7.	Ernakulam	0.04	4.68
8.	Thrissur	0.04	4.68
9.	Palakkad	0.04	4.68
10.	Malappuram	0.04	4.68
11.	Kozhikode	0.04	4.68
12.	Wayanad	0.04	4.68
13.	Kannur	0.04	4.68
14.	Kasaragod	0.04	4.68
15.	HQ		4.00
<b>TOTAL</b>		<b>0.56</b>	<b>69.52</b>

**6) Promotion of Zero Energy Cool Chambers for storage of harvested vegetables (₹ 200.00 lakhs)**

Assistance will be provided for the construction of Zero Energy Cool Chambers for temporary storage of vegetables from clusters. The zero energy cool chamber can be constructed easily with materials like brick, sand, bamboo, straw, gunny bag etc. The chamber can keep the temperature 10 – 15° C cooler than the outside temperature and maintain about 90% relative humidity. Cold storage units can be made useful during periods of glut which necessitate transportation for longer distances for marketing. Assistance limited to a maximum of ₹15000/- per unit will be provided for establishing 1300 small pusa model zero energy cool chambers (3.76 x 1.35 x 0.67 m<sup>3</sup>). Assistance limited to a maximum of ₹50000/- per unit will be provided for 10 large pusa model zero energy cool chambers. The specification will be finalised by the state level technical committee constituted under VDP. An amount of **₹ 200.00 lakhs** is earmarked for this purpose.

District wise financial provision is given as given below:

Sl. No.	Name of District	Phy.	Fin. (in lakhs)
1.	Thiruvananthapuram	130	19.5
2.	Kollam	75	11.25
3.	Pathanamthitta	75	11.25
4.	Alappuzha	100	15
5.	Kottayam	75	11.25
6.	Idukki	75	11.25
7.	Ernakulam	75	11.25
8.	Thrissur	100	15
9.	Palakkad	125	18.75
10.	Malappuram	120	18
11.	Kozhikode	75	11.25
12.	Wayanad	100	15
13.	Kannur	100	15
14.	Kasargod	75	11.25
<b>TOTAL</b>		<b>1300</b>	<b>195</b>

Specification of the large size models will be obtained from Pusa and this can be given to Public Sector organizations like HortiCorp, VFPCCK etc also apart from farmers.

**7) Promotion of Mini Polyhouses (₹ 100.00 Lakhs)**

**Establishment of Mini Polyhouses ( ₹ 75.00lakhs)**

In Kerala most of the family, in town and nearby areas are having only 5 to 10 cents of land and only limited area is available for vegetable cultivation. Hence to promote cultivation,

assistance can be given for the establishing mini polyhouses for kitchen gardens. Poly kitchen garden and other hi-tech kitchen gardens are designed in such way that it can accommodate maximum plants in limited area and do the cultural operations with minimum drudgery.

Cultivation of crops under controlled atmospheric conditions will help to optimize the production by providing ideal environmental conditions to the plant. Growing plants under a poly kitchen garden of 10m<sup>2</sup> and 20m<sup>2</sup> will help to produce completely organic/ safe to eat products for their use. In order to accommodate large number of plants in limited area multi tier growbags will be used. Selection of plants will be made based on the nutritional requirements and plants will be arranged based on their light requirements.

The major activities of green houses cultivation are construction of greenhouse, preparation of hi-tech seedling production, preparation of multi-tier grow bag, preparation of potting mixture for multi-tier grow bag, seedbed preparation, arrangement of different types plants in the greenhouse, nutrient management inside the poly kitchen garden and other hi-tech kitchen garden, installation of irrigation-fertigation system, pest and disease management inside the greenhouse and good agriculture practices inside the greenhouse for sustainable and economical production of good quality, pesticide free vegetables.

### Financial assistance

Total Cost for the construction and establishment of kitchen garden of 10 m<sup>2</sup> - ₹ 60,000/-

Total Cost for the construction and establishment of kitchen garden of 20 m<sup>2</sup> - ₹ 80,000/-

Assistance @ 75% of total cost will be given as below.

Sl. No.	Size of Mini Polyhouses	Total Estimated Cost (₹)	Financial Assistance proposed (75% limited to) (₹)	Total No. of Units (no.)	Total outlay required (₹ In lakhs)
1	10 m <sup>2</sup>	60000	45000	80	36.00
2	20 m <sup>2</sup>	80000	60000	65	39.00
<b>TOTAL</b>					<b>75.00</b>

Sl. No	Name of District	10 sq.m		20 sq.m	
		Phy.	Fin. (Amount in lakhs)	Phy.	Fin. (Amount in lakhs)
1	Thiruvananthapuram	12	5.4	7	4.2
2	Kollam	2	0.9	4	2.4
3	Pathanamthitta	7	3.15	7	4.2
4	Alappuzha	7	3.15	5	3.0
5	Kottayam	5	2.25	4	2.4
6	Idukki	5	2.25	3	1.8
7	Ernakulam	7	3.15	6	3.6
8	Thrissur	8	3.6	9	5.4
9	Palakkad	3	1.35	3	1.8
10	Malappuram	5	2.25	3	1.8
11	Kozhikode	2	0.90	6	3.6
12	Wayanad	6	2.7	3	1.8
13	Kannur	7	3.15	4	2.4
14	Kasargod	4	1.8	1	0.6
<b>TOTAL</b>		<b>80</b>	<b>36</b>	<b>65</b>	<b>39</b>

The Mini Polyhouses of 10m<sup>2</sup> and 20m<sup>2</sup> can be interchanged without changing the financial ceilings for each districts.

### **Training (₹ 25.00lakhs)**

Training programme on the construction of mini polyhouses will be conducted by the Kerala Agricultural University at the Hi-tech Research and Training Unit, Instructional Farm, Velanikkara which is having modern facilities for the conduct of training classes. 8 prototypes of family poly kitchen garden units; 16 no. of greenhouses used for cultivating vegetables, different models of aquaponics & hydroponics, duck-fish-rice-vegetables integrated farming system etc are available in Hi-Tech Research and Training unit.

The Hi-tech Research and Training Unit of KAU will provide training and technical guidance to the Agroservice Centres and Karshika Karmasenas under the department in the establishment of mini polyhouses. The trained members of Agroservice centres and karshika karmasenas will execute the work of establishing the mini polyhouses. The role of the Kerala Agricultural University will be limited to training and technical guidance alone. An amount of

₹ 25.00 lakhs is set apart for training of members of Agro service centres and Karshika Karmasenas and for providing revolving fund based support for construction of mini polyhouses if needed.

#### 8) Supply of Soil Ameliorants including Micro-nutrients (₹ 305.00 lakhs)

Based on the soil test data micro-nutrients and other soil ameliorants will be supplied. An amount of ₹ 5400/ha for lime (75% of the cost of 600 kg. of lime/dolomite/ on an average) and ₹ 500/ha (50% of the cost) for micro-nutrients will be provided under the component to benefit 5169.50 ha.

District wise target is given below:

Sl. No.	Name of District	Phy.	Fin. (in lakhs)
1.	Thiruvananthapuram	375	22.125
2.	Kollam	220	12.980
3.	Pathanamthitta	300	17.70
4.	Alappuzha	500	29.500
5.	Kottayam	340	20.060
6.	Idukki	535	31.565
7.	Ernakulam	300	17.70
8.	Thrissur	500	29.500
9.	Palakkad	260	15.340
10.	Malappuram	560	33.040
11.	Kozhikode	300	17.70
12.	Wayanad	450.5	26.579
13.	Kannur	400	23.60
14.	Kasargod	129	7.611
<b>TOTAL</b>		<b>5169.5</b>	<b>305</b>

#### Special focus on Special Agricultural Zones

The Vegetable Development Programme will be additionally focused in Special Agricultural Zones of Vattavada-Kanthalloor of Idukki district, eastern Palakkad, Kanjikuzhi, Cherthala of Alappuzha district, Pazhayannur and adjoining areas of Thrissur district. Separate targets will be assigned for Special Agricultural Zones and issued along with working instructions.

## Time-line for implementation

Period	Financial (₹ in lakhs)	Progress (%)	Physical (Ha)	Progress (%)
April-June	560.00	20	1000	20
April-September	1130.00	40	2000	40
April-December	1690.00	60	3000	60
April-March	2817.50	100	5000	100

## General Operational Guidelines for Vegetable Development Programme 2018-19

- Wide publicity should be given for the programme through various mass media, various farmers committees, through Panchayat Raj institutions etc. Wide publicity has to be arranged both at state level and district level for **identification of beneficiaries for all components**.
- The Principal Agricultural Officers of the respective districts would be in charge of the district level implementation of the programme.
- Deputy Director (NWDPR) would be the Nodal Officer.
- The Block level Assistant Directors and Officers of the Krishi Bhavans are in charge of the implementation of programme at the field level. They will submit Monthly Report to PAO which will be consolidated at the district level and submitted to Director of Agriculture.
- The Agricultural Assistants will be in charge of the entire component implemented in their jurisdiction. All field level activities will be supervised and field problems to be reported by them to the Agricultural Officers for advising remedial measures to the farmers.
- The Additional Director of Agriculture (Farms, Biogas & Vegetable) will co-ordinate all the activities of the project at the state level.
- As far as possible, while beneficiary selection for the components, 10% may be earmarked to SC/ST.
- The components were Beneficiary Committees are proposed, the account should be joint and the agreement should be jointly executed by the Chairperson and the Convener in order to avoid allegations against officials in future.

## Monitoring and Evaluation

At the block level, the Assistant Directors of Agriculture will monitor the programme and at district level, the Deputy Director of Agriculture (NWDPR) will be the Nodal Officer for the Scheme. The Principal Agriculture Officer will be responsible for the district level scheme

implementation. At the state level, the Additional Director of Agriculture (Farm, Biogas & Veg.) will monitor and review the Scheme.

At district level, a Committee headed by the Principal Agricultural Officer and a Block Level Committee headed by the Assistant Director of Agriculture will ensure convergence of activities with all departments and agencies. Constitution is as follows:

<u>District Level</u>	<u>Block Level</u>
Principal Agricultural Officer	Assistant Director of Agriculture
DDA (NWDPR)	BTM & SMS of ATMA
PD, ATMA	Agricultural Officers
Representative from KAU/KVK	BLBC, Convenor
DM, Kudumba Sree	CDS of Kudumbasree (Selected)
DD, SHM	Joint BDO, MGNREGS
DM, VFPC	AM, VFPC
ADA (M)	
MGNREGS	
Lead District Manager	

Being an extensive programme with multiple components, interchange of approved components as per approved norms and within the total financial outlay under the head of account shall be effected by Director of Agriculture as required.

To,  
All Principal Agricultural Officers

Copy to:

- 1) Chief (Agriculture), State Planning Board, Thiruvananthapuram.
- 2) Chief Executive Officer, VFPC
- 3) Director of Research, Kerala Agricultural University, Vellanikkara
- 4) Principal Information Officer, FIB, Thiruvananthapuram for giving wide publicity to the scheme.
- 5) Program Co-ordinator, KVK, Njarakkal, Ernakulam
- 6) PA to Director of Agriculture
- 7) CA to Additional Directors of Agriculture
- 8) All Joint Directors of Agriculture at HQ
- 9) All DDAs (NWDPR)
- 10) Planning Section/Finance Section
- 11) IT Cell – for uploading in the official website
- 12) Stock File

Sd/-  
Director of Agriculture

  
Senior Agricultural Officer(vc)  
Directorate of AD & FWD  
Vikas Bhavan Tvpm-33

**VEGETABLE DEVELOPMENT PROGRAMME 2018-19**

**PHYSICAL AND FINANCIAL TARGETS**

Sl. No	District	1 Homestead Cultivation					2. Vegetable cultivation through institution -Rs.197 lakh					Total	
		Homestead Cultivation - Seedkit Distribution Through Farmers-400 Lakhs		Supply of Vegetable Seedlings-100 Lakhs		Total Fin (lakhs)	Phy (units)	Fin(in Lakhs)	Vegetable cultivation through educational institution and others	Functiona l Expenses	Irrigation units		Project based cultivation including NGO
		Phy (units)	Fin (In lakhs) Fin (lakhs)	No. of seedlings	Fin (lakhs) (lakhs)								
1	Thiruvananthapuram	300000	30	800000	17.6	47.6	210	8.4	2.1	4	0.4	7	17.9
2	Kollam	300000	30	600000	13.2	43.2	310	12.4	3.1	5	0.5	6	22
3	Pathanamthitta	280000	28	400000	8.8	36.8	130	5.2	1.3	3	0.3	5	11.8
4	Alappuzha	300000	30	740000	16.28	46.28	130	5.2	1.3	3	0.3	6	12.8
5	Kottayam	300000	30	600000	13.2	43.2	210	8.4	2.1	4	0.4	4	14.9
6	Idukki	300000	30	600000	13.2	43.2	150	6	1.5	3	0.3	3	10.8
7	Ernakulam	300000	30	600000	13.2	43.2	210	8.4	2.1	4	0.4	4	14.9
8	Thrissur	350000	35	1000000	22	57	210	8.4	2.1	4	0.4	5	15.9
9	Palakkad	300000	30	800000	17.6	47.6	210	8.4	2.1	4	0.4	5	15.9
10	Malappuram	300000	30	800000	17.6	47.6	160	6.4	1.6	4	0.4	4	12.4
11	Kozhikode	400000	40	200000	4.4	44.4	200	8	2	4	0.4	4	14.4
12	Wayanad	140000	14	1200000	26.4	40.4	70	2.8	0.7	2	0.2	4	7.7
13	Kannur	280000	28	550000	12.1	40.1	200	8	2	4	0.4	6	16.4
14	Kasargod	150000	15	200000	4.4	19.4	100	4	1	2	0.2	4	9.2
15	HQ					0							0
16	FIB					0							0
	<b>TOTAL</b>	<b>4000000</b>	<b>400</b>	<b>9090000</b>	<b>199.980</b>	<b>600</b>	<b>2500</b>	<b>100</b>	<b>25</b>	<b>50</b>	<b>5</b>	<b>67</b>	<b>197</b>

**VEGETABLE DEVELOPMENT PROGRAMME 2018-19**

**PHYSICAL AND FINANCIAL TARGETS**

Sl. No.	District	3.Training, Awareness & Publicity -Rs.50 lakh				4.Development of District Clusters -1265.5 lakh						
		Publicity	Training Materia	Training @ Rs 1000/training	Total	Assistance to Clusters @ Rs. 75000/- for 5 ha/unit		Additional area in( ha)		Pumpsets - Portable @ Rs. 10,000/- per unit		
		Fin(lakhs)	Fin(lakhs)	Phy (units)	Fin(in Lakhs)	Fin (lakhs)	Phy (units)	Fin(in Lakhs)	Phy (units)	Fin(in Lakhs)	Phy (units)	Fin(in Lakhs)
1	Thiruvananthapuram	1		100	1	2	25	18.75	10	1.5	150	15
2	Kollam	1		80	0.8	1.8	20	15.00	15	2.25	140	14
3	Pathanamthitta	1		80	0.8	1.8	20	15.00	10	1.5	130	13
4	Alappuzha	1		125	1.25	2.25	25	18.75	15	2.25	200	20
5	Kottayam	1		100	1	2	23	17.25	10	1.5	150	15
6	Idukki	1		125	1.25	2.25	23	17.25	20	3	150	15
7	Ernakulam	1		80	0.8	1.8	22	16.50	10	1.5	125	12.5
8	Thrissur	1		120	1.2	2.2	26	19.50	20	3	150	15
9	Palakkad	1		100	1	2	27	20.25	20	3	140	14
10	Malappuram	1		100	1	2	25	18.75	20	3	150	15
11	Kozhikode	1		80	0.8	1.8	18	13.50	10	1.5	150	15
12	Wayanad	1		60	0.6	1.6	20	15.00	10	1.5	120	12
13	Kannur	1		80	0.8	1.8	26	19.50	15	2.25	120	12
14	Kasargod	1		70	0.7	1.7	20	15.00	15	2.25	125	12.5
15	HQ					0						
16	FIB	16	7			23						
	<b>TOTAL</b>	30	7	1300	13	50	320	240	200	30	2000	200

VEGETABLE DEVELOPMENT PROGRAMME 2018-19

PHYSICAL AND FINANCIAL TARGETS

4.Development of District Clusters -1265.5 lakh

Sl. No.	District	PP Equipments @ Rs.1500/- per unit		Innovation Fund @ Rs3,00,000/-	Haritha Fund to Clusters @ Rs. 1000/- per Cluster		Vegetable Cultivation in Fallow Land		Seed kit distribution through media		Staggered clusters		Supply of seedkits through NGO	
		Phy	Fin (lakhs)		Phy	Fin (lakhs)	Phy	Fin (lakhs)	Phy	Fin (lakhs)	Phy	Fin (lakhs)	Phy	Fin (lakhs)
1	Thiruvananthapuram	150	2.25	3	75	0.75	14	4.20			128	19.2	70500	7.05
2	Kollam	140	2.1	3	60	0.60	14	4.20			123	18.45	45000	4.5
3	Pathanamthitta	130	1.95	3	60	0.60	13	3.90			100	15	40000	4
4	Alappuzha	200	3	3	75	0.75	15	4.50			220	33	40000	4
5	Kottayam	150	2.25	3	100	1.00	10	3.00			130	19.5	30000	3
6	Idukki	150	2.25	3	65	0.65	13	3.90			240	36	35000	3.5
7	Ernakulam	125	1.875	3	65	0.65	10	3.00			70	10.5	30000	3
8	Thrissur	150	2.25	3	80	0.80	17	5.10			190	28.5	62850	6.285
9	Palakkad	140	2.1	3	80	0.80	13	3.90			275	41.25	30000	3
10	Malappuram	150	2.25	3	75	0.75	15	4.50			140	21	30000	3
11	Kozhikode	150	2.25	3	60	0.60	13	3.90			100	15	30650	3.065
12	Wayanad	120	1.8	3	65	0.65	10	3.00			180	19.5	10000	1
13	Kannur	120	1.8	3	80	0.80	16	4.80			190	28.5	36000	3.6
14	Kasargod	125	1.875	3	60	0.60	12	3.60			140	21	10000	1
15	HQ			3						12	120			0
16	FIB													0
<b>TOTAL</b>		<b>2000</b>	<b>30</b>	<b>45</b>	<b>1000</b>	<b>10.00</b>	<b>185</b>	<b>55.5</b>	<b>12</b>	<b>120</b>	<b>2176</b>	<b>326.4</b>	<b>500000</b>	<b>50.0</b>

**VEGETABLE DEVELOPMENT PROGRAMME 2018-19**

**PHYSICAL AND FINANCIAL TARGETS**

**4. Development of District Clusters - 1265.5 lakh**

Sl. No.	District	Production and distribution of seeds of traditional varieties (Rs. 25.00 lakhs)				Promotion of Nutrition Garden (Rs.25.00 lakhs)				Assistance to Agroservice Centres for establishment of nurseries & support of traditional varieties and nutritional garden (Rs.75.00 lakhs)				Field Assistants		Total
		Augmenting seed production of traditional varieties (Rs.20.00 lakhs)		Geographical indication of traditional varieties		Distribution of Saplings (Rs.20.00 lakhs)		Commercial cultivation of perennial vegetables (Rs.5.00 lakhs)		Phy	Fin(lakhs)	Phy	Fin(lakhs)	Phy	Fin(lakhs)	
		Phy	Fin(lakhs)	Fin(lakhs)	Phy	Phy	Fin(lakhs)	Phy	Fin(lakhs)							
		Phy	Fin(lakhs)	Fin(lakhs)	Phy	Phy	Fin(lakhs)	Phy	Fin(lakhs)							
1	Thiruvananthapuram	5	1.25			3000	1.50	2	0.40	1	1	3	5.55000	81.4		
2	Kollam	3	0.75			2000	1.00	1	0.20	0	0	4	7.39814	73.44814		
3	Pathanamthitta	5	1.25			2000	1.00	1	0.20	1	1	3	5.55000	66.95		
4	Alappuzha	5	1.25			4000	2.00	2	0.40	1	1	4	7.39814	101.29814		
5	Kottayam	5	1.25			3000	1.50	1	0.20		0	3	5.55000	74		
6	Idukki	5	1.25			5000	2.50	2	0.40	1	1	4	7.39814	97.09814		
7	Ernakulam	5	1.25			3000	1.50	2	0.40	1	1	4	7.39814	64.07314		
8	Thrissur	10	2.5			4000	2.00	3	0.60	1	1	6	11.09673	100.63173		
9	Palakkad	6	1.5			4000	2.00	2	0.40	1	1	5	9.24974	105.44974		
10	Malappuram	9	2.25			2000	1.00	2	0.40	1	1	4	7.39814	83.29814		
11	Kozhikode	5	1.25			2000	1.00	2	0.40	1	1	3	5.55000	67.015		
12	Wayanad	7	1.75			2000	1.00	2	0.40	0	0	3	5.55000	66.15		
13	Kannur	5	1.25			2000	1.00	2	0.40	1	1	3	5.55000	85.45		
14	Kasargod	5	1.25			2000	1.00	1	0.20		0	2	3.70283	66.97783		
15	HQ				5								4.25000	132.25		
16	FIB													0		
	<b>TOTAL</b>	<b>80</b>	<b>20</b>	<b>5</b>	<b>5</b>	<b>40000</b>	<b>20.00</b>	<b>25.00</b>	<b>5.00</b>	<b>10.00</b>	<b>10.00</b>	<b>51</b>	<b>98.6</b>	<b>1265.5</b>		

VEGETABLE DEVELOPMENT PROGRAMME 2018-19

PHYSICAL AND FINANCIAL TARGETS

5. Technical Support & Contract Appointment -100 lakhs

Sl. No.	District	Technical Support at Districts										Technical Support at HQ						Total	
		MDT Conducted		Data Entry Operators		Operational Expense		MDT Conducted		Data Entry Operators		Technical Assistants at HQ		Document ation					
		Phy	Fin(lakhs)	Phy	Fin(lakhs)	Phy	Fin(lakhs)	Phy	Fin(lakhs)	Phy	Fin(lakhs)	Phy	Fin(lakhs)	Phy	Fin(lakhs)	Phy	Fin(lakhs)		
1	Thiruvananthapuram	2	0.04	2	4.6800												4.72		
2	Kollam	2	0.04	2	4.6800												4.72		
3	Pathanamthitta	2	0.04	2	4.6800												4.72		
4	Alappuzha	2	0.04	2	4.6800												4.72		
5	Kottayam	2	0.04	2	4.6800												4.72		
6	Idukki	2	0.04	2	4.6800												4.72		
7	Ernakulam	2	0.04	2	4.6800												4.72		
8	Thrissur	2	0.04	2	4.6800												4.72		
9	Palakkad	2	0.04	2	4.6800												4.72		
10	Malappuram	2	0.04	2	4.6800												4.72		
11	Kozhikode	2	0.04	2	4.6800												4.72		
12	Wayanad	2	0.04	2	4.6800												4.72		
13	Kannur	2	0.04	2	4.6800												4.72		
14	Kasargod	2	0.04	2	4.6800												4.72		
15	HQ				4.000				0.1	3	7.020	0.40			2	9.48	0.31	6.000	33.92
16	FIB																		0
	<b>TOTAL</b>	<b>28</b>	<b>0.56</b>	<b>28</b>	<b>69.520</b>			<b>0</b>	<b>0.1</b>	<b>3</b>	<b>7.02</b>	<b>0.40</b>		<b>2.00</b>	<b>9.48</b>	<b>0.31</b>	<b>6</b>	<b>33.92</b>	<b>100</b>

Director, P. & S. Dept.  
 Government of Kerala  
 Thiruvananthapuram

VEGETABLE DEVELOPMENT PROGRAMME 2018-19

PHYSICAL AND FINANCIAL TARGETS

Sl. No.	District	6.Zero energy cool chamber		7.Establishment of Mini Polyhouses (Rs.75.00lakhs) 75 % assistance 10sqm- Rs.45000 ,20sqm- Rs.60000				Training	8.Supply of Soil Ameliorants including Micro-nutrients (Rs.270 LAKH) ( 75 % of the cost of dolomite ie,Rs.5400/ha,50%of the cost of Micronutrients ie,Rs.12500/ha)		Total
		Phy	Fin(lakhs)	10 sqm		20 sqm			Phy	Fin(lakhs)	
				Phy	Fin(lakhs)	Phy	Fin(lakhs)	Phy			Fin(lakhs)
1	Thiruvananthapuram	130	19.5	12	5.40	7	4.2	375	22.125	204.84500	
2	Kollam	75	11.25	2	0.90	4	2.4	220	12.98	172.69814	
3	Pathanamthitta	75	11.25	7	3.15	7	4.2	300	17.7	158.37000	
4	Alappuzha	100	15	7	3.15	5	3	500	29.5	217.99814	
5	Kottayam	75	11.25	5	2.25	4	2.4	340	20.06	174.78000	
6	Idukki	75	11.25	5	2.25	3	1.8	535	31.565	204.93314	
7	Ernakulam	75	11.25	7	3.15	6	3.6	300	17.7	164.39314	
8	Thrissur	100	15	8	3.60	9	5.4	500	29.5	233.95173	
9	Palakkad	125	18.75	3	1.35	3	1.8	260	15.34	212.90974	
10	Malappuram	120	18	5	2.25	3	1.8	560	33.04	205.10814	
11	Kozhikode	75	11.25	2	0.90	6	3.6	300	17.7	165.78500	
12	Wayanad	100	15	6	2.70	3	1.8	450.5	26.579	166.64900	
13	Kannur	100	15	7	3.15	4	2.4	400	23.6	192.62000	
14	Kasargod	75	11.25	4	1.80	1	0.6	129	7.611	123.25883	
15	HQ		5							196.17000	
16	FTB									23.00000	
	<b>TOTAL</b>	<b>1300</b>	<b>200</b>	<b>80</b>	<b>36</b>	<b>65</b>	<b>39</b>	<b>5169.5</b>	<b>305</b>	<b>2817.47000</b>	

  
 Sd/-  
 Director of Agriculture  
 Senior Agricultural Officer(vc)  
 Directorate of AD & FND  
 Vikas Bhavan Tvpm-33