

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

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**CIRCULAR**

Sub:- Annual Plan 2021-22-Scheme for Development of Fruits,Flowers and Medicinal plants-Component ' Development of Fruits' -Production of planting materials and infrastructure development in farms- Head of Account 2401-00-119-79 Plan - Working Instructions Issued - regarding.

Ref:- 1)GO(Rt)No.506/2020/Agri dated 9/6/2020 of Agri (PB) Department.  
2)Annual plan 2021-22  
3)ADFW/3190-TP2 dated 24/05/2021of Director of Agriculture

Government of Kerala vide order cited 1<sup>st</sup> above have accorded administrative sanction for a programme for development of the fruit sector as part of the scheme component "Development of Fruits".As part of this programme,administrative sanction was received for the production and distribution of 1.14 crore planting materials of fruit plants in the state. Planting materials were produced in Departmental farms and distributed to farmers,under the scheme during 2020-21.

In the Annual plan 2021-22,an amount of Rs.2515 lakh is earmarked for the continuing scheme"Development of Fruits,Flowers and Medicinal Plants" under the Head of Account 2401-00-119-79 Plan.Out of this an amount of Rs.2190.00 lakh is set apart for the component "Development of Fruits".

As per reference 3<sup>rd</sup> above, continuous administrative sanction has been received for the implementation of the sub-component "infrastructure developments in farms" for an amount of Rs.488.00 lakh ( Rupees Four Crore and

eighty eight lakh only) under the component "Development of fruits" of the scheme "Development of Fruits, Flowers and Medicinal Plants" under the Head of Account 2401-00-119-79 Plan.

**Development of infrastructure in Departmental Farms - Rs.488.00 lakh**Total

Infrastructure development in departmental farms is of utmost importance. The major objectives of improvement of infrastructure in farms is as follows.

- To increase the production capacity of farms under the department of Agriculture.
- To reduce the dependence of farmers on outside agencies for good quality planting materials.
- To produce good quality reliable planting materials.

Development of infrastructure facilities including high-tech production methods will be carried out and assistance will be provided for the following activities.

Sl. No	Component	Cost(Rs in lakh)
1	Construction of Polyhouse, Rain shelter, hardening units	180.00
2	Providing irrigation facilities	120.00
3	Production cost of planting materials	100.00
4	Expansion of progeny orchards of fruit plants	88.00
	Total	488.00

The Fruit development project envisages distribution of 1 crore planting materials each for the next 10 years starting from 2020-21. The major source of production identified is Department farms. The production capacity of farms has to

be increased to the maximum to reduce the dependence on other agencies and also to ensure production of good quality planting materials under the direct supervision of Department officials. This require development of infrastructure facilities including high tech production methods.

**The proposed activities and the source of fund are as follows:**

**a.Construction of Poly houses,rain shelter,hardening units etc.- Rs.180.00lakh**

Plant growing structures like mist chamber,polyhouse, shadenet facility,rain shelter etc. are required for the production of quality planting materials of major fruit crops.These structures ensure better root growth,bud graft union,hardening and high success rate in plant multiplication.The amount earmarked shall be utilised for the construction as well as urgent repair of the plant propagation structures.

**1.Mist chambers**

Mist chambers provide a humid and cool micro environment that is necessary for the propagation of soft wood cuttings,hard to root species etc.

**2.Polyhouses**

In a polyhouse,temperature,light and humidity are maintained at optimum conditions required for quick growth and development of grafted or budded plants.This would help in higher success rate of multiplication with better and healthy nursery plants.200 m2 polyhouse area is required to stock around10000 rooted/budded/grafted nursery plants at a given point of time.

**3.Shade net area/rain shelters**

Shade net area provides necessary micro climate for

acclimatization and hardening of layered/budded/grafted plants and offer protection from direct sun light,high rainfall,dry winds etc. A shade net area of 500 m<sup>2</sup> can house 10000 grafts or other planting materials at a given point of time.

**The physical and financial targets allotted for the components is given below**

Sl.no	District	Construction of Polyho use,rainshelter,Hardeni ng unit,Mist chamber et c& urgent repair	Amount (Rs. In la khs)
1	Thiruvananthapur am	600	13
2	Kollam	300	6.5
3	Pathanamthitta		6.0
4	Alappuzha	2100	44
5	Kottayam	1100	23
6	Idukki	500	10
7	Ernakulam	600	13
8	Thrissur	350	7.5
9	Palakkad	500	10.5
10	Malappuram	500	10.5
11	Kozhikkod	750	16
12	Kannur	200	4
13	Kasaragod	800	16
	TOTAL	8300	180

**b. Providing irrigation facilities-Rs.120 lakh**

Irrigation resources is an important pre requisite necessary for the production of planting materials.An amount of Rs.120 lakh is provided for establishing irrigation facilities in

departmental farms. This amount can be utilized for creating new sources of irrigation and for improving the existing facilities.

The allotment of funds for this component is as follows.

Sl.No	District	Amount allotted (Rs. In lakh)
1	Thiruvananthapuram	2.5
2	Kollam	2.5
3	Pathanamthitta	5
4	Alappuzha	30
5	Kottayam	5
6	Idukki	2
7	Ernakulam	4
8	Thrissur	9
9	Palakkad	18
10	Malappuram	30
11	Kozhikkod	5
12	Kannur	3
13	Kasaragod	4
	TOTAL	120

Detailed estimate for individual works of selected farms should be prepared and technical sanction obtained for them. The list of items/works selected should be forwarded to this office. The calendar of works is attached.

Sl.No	Name of activity	Proposed date
1	Submitting the details of selected works	On or before 30/06/2021
2	Issuing administrative sanction	30/7/2021

3	Submission of details for getting Technical sanction	10/08/2021
4	Tender/Quotations	20/08/2021
5	Purchases/starting of works	20/09/2021
6	Completion of works	30/10/2021

The DDA(YP) should co-ordinate the works in the districts. The farm officers should prepare the proposals as per the requirement of implementation of the Schem components. The technical committee constituted at district level with assistant Executive Engineer ( Agri.) as member should facilitate the implementation of the components.

### **C. Production cost of seedling – Rs.100.00 lakhs**

An amount of Rs.100 lakh has been set apart for meeting the production cost of planting materials of fruit plants. This amount shall be utilized for meeting the input cost ,management cost and all other expenses in connection with the production of planting materials in departmental farms.

Departmental farms being the major producer of quality planting materials of fruit plants under Government sector, It is targeted to produce 65 lakh number of quality planting materials of fruit plants in departmental farms and for distribution during 2022 planting season which starts from first week of June 2022. The district wise production target is given as annexure-1.

Actions shall be taken at the farm level to produce maximum number of improved planting materials viz. grafts, layers etc. Progeny orchards of fruit plants are available in all DAFs, special farms and in some state seed farms. The existing progeny orchards and mother gardens should be fully utilized to assure the supply of bud wood/scion requirement/layering purpose for the production of maximum number of good quality planting materials of fruit plants to the farmers. Improved methods of propagation like veneer, epicotyls /stone grafting/soft wood grafting etc. shall be carried out.

The farm labourers should be trained for carrying out skilled activities like layering, grafting, budding etc.If sufficient skilled labourers are not available, outsourcing of grafting,budding,layering activities can be sought adhering to the conditions communicated from this office during 2020-21.

Rooted seedlings shall be produced only for those varieties of plants which have farmer's preference.

BMFC Kazhakkuttam should produce maximum number of quality TC banana plantlets.DAF Anchal and DAF Taliparamba shall utilize the laboratory facilities attached with the farms for the production of TC banana.

The funds earmarked for the production of planting materials can also be utilized for the production of indigenous varieties of fruit crops( Sugathakumari Nattu Manthoppukal ) which have high popularity in certain locality like kuttiattur variety of mango in kannur, kotturkonam variety in Thiruvananthapuram district etc.If there is a reliable source for the supply of scions of these varieties,these shall be sourced from the adjacent areas of the farm for grafting purpose.

The detailed production target of planting materials for distribution during June 2022 will be issued separately

#### **District wise allotment of funds**

Sl.No.	District	Amount allotted (Rs. In lakhs)
1	Thiruvananthapuram	5
2	Kollam	4

3	Pathanamthitta	5
4	Alappuzha	12
5	Kottayam	3
6	Idukki	7
7	Ernakulam	4
8	Thrissur	6
9	Palakkad	25
10	Malappuram	18
11	Kozhikkod	4
12	Kannur	4
13	Kasaragod	3
	TOTAL	100

**d. Expansion of progeny orchards of exotic fruit plants – Rs. 88.00 lakh**

There are numerous species of exotic fruit plants like mangosteen, rambuttan, Durian, types of berries, perssimon, pulasan, exotic varieties of mango, jack etc. grown in many parts of Kerala. Farmers are aware of their nutritional value, scope for value addition etc. and there is high demand for the planting materials of such crops. But the availability of planting materials of exotic varieties of crops is from Govt. sources is limited and farmers mainly resorted to private agencies for the purchase.

In order to assure the supply of maximum number of quality planting materials of exotic fruit plants from departmental farms in the coming years, the area under progeny orchards and mother garden of exotic varieties of fruit plants need to be expanded. Taking this into account, an amount of Rs. 88.00 lakh is earmarked for the expansion of progeny orchards of exotic fruit plants in departmental farms. Funds shall be utilized for land clearing, land development



activities. modern irrigation facilities,manuring,plant protection,purchase of planting materials and inputsetc. In connection with the area expansion of progeny orchards in departmental farms especially in DAFs and special farms.

Purchase of planting materials is to be done from approved sources. Micro irrigation system should be adopted.This should be ensured by Principal Agricultural Officers with the help of engineering division of the department and can authorize the engineering wing to do the land development/infrastructural works as per the requirement of the plots established.The full cost proposed for the establishment of of progeny orchards in one hactre is Rs.5 lakh.

#### **Details of farms selected and area proposed is as follows**

District	Area for the establishment of progeny orchards(Ha)	Amount allotted to PAOs (Rs in lakh)
Thiruvananthapuram	0.2	1.0
Kollam	0.2	1.0
Pathanamthitta	0.4	2.0
Alappuzha	0.1	0.5
Kottayam	1.1	5.5
Idukki	0.2	1.0
Ernakulam	1.2	6.0
Thrissur	0.5	2.5
Palakkad	2.3	11.5
Malappuram	3.2	16.0
Kozhikkode	1.0	5.0
Kannur	0.2	1.0
Kasaragod	7.0	35.0
<b>TOTAL</b>	<b>17.6</b>	<b>88.0</b>



**Total allotment of funds under Fruit Development scheme under H/A****2401-00-119-79 plan.(Rupees in Lakh)**

Sl. No	District	Rainshelter, Polyhouse, Hardening unit, Mist chamber etc	Improving Irrigation Facilities	Production Cost	Establishment of progeny orchards	Total	AEU
1	Thiruvananthapuram	13.0	2.5	5.0	1.0	21.5	1.14
2	Kollam	6.5	2.5	4.0	1.0	14.0	3,9,12
3	Pathanamthitta	6.0	5.0	5.0	2.0	18.0	9
4	Alappuzha	44.0	30.0	12.0	0.5	86.5	3
5	Kottayam	23.0	5.0	3.0	5.5	36.5	9
6	Idukki	10.0	2.0	7.0	1.0	20.0	12,16
7	Ernakulam	13.0	4.0	4.0	6.0	27.0	9,12
8	Thrissur	7.5	9.0	6.0	2.5	25.0	2,6,10,14,15
9	Palakkad	10.5	18.0	25.0	11.5	65.0	10,13,14,22,23
10	Malappuram	10.5	30.0	18.0	16.0	74.5	2,11,15
11	Kozhikkode	16.0	5.0	4.0	5.0	30.0	2,11,15
12	Kannur	4.0	3.0	4.0	1.0	12.0	2,11
13	Kasaragode	16.0	4.0	3.0	35.0	58.0	2,11
	<b>TOTAL</b>	<b>180.0</b>	<b>120.0</b>	<b>100.0</b>	<b>88.0</b>	<b>488.0</b>	

**General Instructions**

1. Farm officers should prepare additional forecast for this scheme or modify the existing forecast of expenditure as the case may be.
2. Farm officers should assess the requirement of inputs and other items required for the production of targeted number of planting materials, well in advance.



3.The inputs shall be procured from approved sources or by inviting tender/quotations.  
(first week of July 2021)

4.Tender approval and purchases shall be effected before first week of August 2021.

5.The calendar of operations and time line should be strictly adhered to.

**Monitoring**

Deputy Director of Agriculture (YP) is in charge of the scheme at district level.DDA(YP) should inspect all the farms in the district at least once in a month and monitor the activities of the scheme. The Principal Agricultural Officer of the district should monitor and review all the components of scheme in each month. It should be ensured that all the inputs are available in time for the production of quality planting materials.The physical and financial targets allotted to the district,component of the scheme,output and outcome of the scheme,mode of implementation,period of completion and the deliverables of the scheme should be closely monitored by the PAO. In case of erring officers, appropriate actions should be initiated / recommended to higher officials at state level.

Additional Director of Agricultural (farms) will monitor the scheme at state level. The Principal Agricultural Officer should send weekly reports of the programme to agrifarmsth@gmail.com. Monthly progress reports pertaining to the scheme should invariably contain component wise physical and financial targets and the stge of implementation of each component. Any difficulties or bottlenecks in the implementation of the programme should be brought to the notice of Additional Director of Agriculture (Farms) or Joint Director of Agriculture (Farms) and get it cleared then and there itself. The scheme shall be implemented abiding by the terms and conditions stipulated in the Government Order cited as reference.

The expenditure towards the implementation of the scheme will be met from Rs.2515.00 lakhs earmarked for the scheme ' Development of Fruits' under the H/A 2401-00-119-79 Plan.

**DR.K.VASUKI IAS**  
**DIRECTOR**

To

All Principal Agricultural Officers  
Copy to: All Additional Director of Agriculture  
All Joint Director of Agriculture in Head Quarters  
Planning Section / TA to DA  
Deputy Director of Agriculture (IT) for publishing in the website  
SW Section for updating plan space

*9/6/21*  
Joint Director of Agriculture (Farms)  
Directorate of Agriculture Development  
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