

CIRCULAR

Sub:- Annual Plan 2021-2022- **Scheme for Promotion of Pulses & Tubers** –
Scheme component Development of Tubers - **H.o.A. 2401-00-112-96 P** -
Working Instructions issued- reg.

Ref:- 1. G.O. (Rt.) No. 500/2021/AGRI dated 16/06/2021
2. G.O. (Rt.) No. 568/2021/AGRI dated 05/07/2021
3. Annual Plan 2021-2022
4. G.O. (Rt.) No. 1009/2020/LSGD dated 29/05/2020
5. G.O. (Rt.) No. 478/2020/AGRI dated 31/05/2020
6. Circular No. TC 4642/2021 dt. 25/08/2021

In the annual plan 2021-22, there is a budget provision of Rs. 243 Lakh for the scheme “Promotion of Pulses & Tubers”. Government has accorded Administrative Sanction to the scheme for an amount of Rs. 150 Lakh vide order 1st cited, under the head of account 2401-00-112-96 (P) subject to the condition that focus will be given to the Onattukara region. Similarly, Government has also accorded administrative sanction for an amount of Rs. 93.00 lakh for the component ‘Subhiksha Keralam for Promotion of Pulses and Tubers vide the above-mentioned order cited ref 2nd above. Working Instructions for components for an amount of Rs. 153 lakh was issued vide ref 6th cited. The Working Instructions for the balance amount of **Rs. 90 lakh** for the component “Development of Tuber Crops” under the scheme Promotion of Pulses and Tubers 2021-22 are issued as detailed below:

Development of Tuber Crops

The cultivation of tuber crops is gaining popularity in the state due to the increase in income to the farmers and also due to the acceptance of tubers for culinary purpose by the people of Kerala. Owing to drought tolerance, wide flexibility to adverse soil, nutrient and management conditions, these tuber crops are considered as important food security crops. Tuber crops include short duration species which mature from three to eleven months, depending upon the crop and varieties. Tapioca, Coleus, Colocasia, Elephant Foot Yam, Sweet potato & Yams are important tuber crops cultivated in Kerala.

A large number of varieties with high yielding potential, disease resistance and desirable processing qualities have been developed and released for the benefit of farmers by research institutions, mainly CTCRI. It is further facilitated by the availability of good quality planting materials. Considering the different maturity periods of released varieties, they suit well to the various mixed cropping patterns followed by the farmers of Kerala. An amount of **Rs. 90 lakh** is set apart for Development of Tubers.

Objectives

The main objective of the scheme is to promote cultivation of tuber crops such as tapioca, amorphophallus, greater yam, lesser yam, colocasia, sweet potato etc. as pure crop and as intercrop in plantations.

- To improve production and productivity of tuber crops.
- To popularise promising tuber crop varieties developed by CTCRI, KAU, other Research Institutes etc.
- To popularize cultivation of underutilized tuber crops.
- To increase farmers income through high returns per unit area.
- To make available starchy and calorific food items to the starving section of the society, thus providing food security for the state.
- To support the associated food processing industry.

The scheme will be implemented by the Agriculture Development and Farmer's Welfare Department in association with CTCRI, KAU, VFPCCK etc.

The various components of the scheme are detailed below:

1) Production and supply of Quality Declared Planting materials (QDPM)

Since CTCRI has not been able to supply source planting materials for the scheme in the previous years, farmers can procure Quality Declared Planting Materials (QDPM) of new and promising varieties of tuber crops such as **tapioca, amorphophallus, greater yam, lesser yam, colocasia, sweet potato, arrowroot** etc. from farmers/farmer groups / incubatees /FPOs / SHGs (Decentralised Multipliers or DMs) who will be endorsed by ICAR-CTCRI/KAU/Other Research Centers. A sub-committee chaired by Additional Director of Agriculture (Farms), with officials from ICAR-CTCRI/KAU/VFPCCK and Additional Director of Agriculture (Crop Production)) has decided the price of seed material to be collected from DMs, as detailed in table

below. The list of DMs from CTCRI and KAU are appended along with the circular. Upto 100% subsidy may be given to farmers for planting materials procured from DMs. Planting materials of released varieties purchased directly from CTCRI / KAU/ Other Research Stations will be eligible for 100% subsidy limited to the subsidy rates given in table.

Name of Tuber crop	Seed material	Quantity per cent	Price Rs. /kg or /cutting	Subsidy (100%)
Amorphophallus	Corm	48 kg	Rs. 60/kg	Rs. 60/kg
Xanthosoma	Mother Corms	8 kg	Rs. 30/kg	Rs. 30/kg
Xanthosoma	Cormels	4 kg	Rs. 60/kg	Rs. 60/kg
Colocasia	Mother Corms	16 kg	Rs. 60/kg	Rs. 60/kg
Colocasia	Cormels	4 kg	Rs.60/kg	Rs.60/kg
Dioscorea	Tuber	15 kg	Rs. 50/kg	Rs. 50/kg
Lesser Yam	Tuber	11 kg	Rs. 50/kg	Rs. 50/kg
White Yam	Tuber	15 kg	Rs. 50/kg	Rs. 50/kg
Sweet Potato	Vine cuttings 30 cm length	340 cuttings	Rs. 0.5/ cutting	Rs. 0.5/ cutting
Sweet Potato	Tuber (for raised in nursery)	0.40	Rs. 35/kg	Rs. 35/kg
Tapioca	Stem cuttings	8 stems	Rs. 5/cutting	Rs. 5/cutting
Coleus	Vine (15 cm vine cuttings)	300	Rs. 0.5/cutting	Rs. 0.5/cutting
Coleus	Tuber (for primary nursery)	0.44 kg	Rs. 60/kg	Rs. 60/kg

Planting material from above sources may be utilized as far as possible for the scheme. If there is not sufficient quantity of good quality planting material available with DMs or its timely supply, the amount allocated for this component can be utilized for the component 'Area expansion of Tubers' using good quality local cultivars. The same may be brought to the notice of the Principal Agricultural Officers. PAOs shall review the situation and issue direction to change the unutilized fund under this component to Area

Expansion of Tubers, under intimation to this office. The details of change of fund, revised physical and financial targets for Area Expansion *etc* must be communicated in detail to this office. An amount of **Rs. 16 lakh** is earmarked for this purpose.

2) Area Expansion / Secondary Seed Multiplication of Tuber Crops

The planting materials of promising varieties of tuber crops can be used for secondary seed multiplication or area expansion of tubers. If seed multiplication is taken up, it will be carried out in appropriate locations as demonstration plots following all scientific management practices with the technical guidance of CTCRI / KAU/ other research institutes. Necessary observations from planting to harvest will be taken and recorded by the Agricultural Officers concerned to evaluate the performance of different varieties and their suitability to various locations. This component can be carried out as area expansion as well, to popularise the varieties and to increase farmers' income through better yield. Planting materials from CTCRI/KAU/Other Research Centre endorsed sources may be utilized as far as possible. However, popular and good quality local cultivars can also be used under the scheme through farmers' exchange/VFPCCK/Department farms etc.

It is proposed to provide assistance for area expansion / secondary seed multiplication of tuber crops in an area of **320 ha** across the State by providing assistance @ **Rs. 20000/- per ha** including free supply of planting materials. Preference will be given to traditional tuber growing areas. Revised rate of assistance will be followed as per G.O.s mentioned (4) and (5) above. The cost of cultivation of tuber crops comes to around Rs. 1,98,750/- per hectare and assistance will be provided to the farmers @ Rs. 20000/ per hectare, which is 10 % of the cost of cultivation. An amount of **Rs. 64.00 lakh** is set apart for this purpose. The physical and financial targets allotted for the districts are furnished as Annexure -I.

3) Tuber Seed Multiplication / Area Expansion in Tribal Areas (Rs. 10.00 lakhs)

The seed multiplication / area expansion programme will also be carried out in various tribal areas of the State under the close supervision of department and CTCRI/KAU. Emphasis will be given to multiplication of less water requiring tuber crops. Eco friendly, crop management methods like the Vrikshayurveda, PPFM technology, traditional cultivation, etc, alone will be adopted in tune with tribal culture, after taking them into confidence. Necessary observations from planting to harvest will

be taken and recorded by the Agricultural Officers concerned, to evaluate the performance of different varieties and their suitability to various locations.

It is proposed to provide assistance for tuber crop cultivation in an area of **40 ha** in tribal areas of the State (Palakkad, Idukki, and Wayanad) by providing assistance @ **Rs. 25000/- per ha**, which includes free supply of planting materials. An amount of **Rs. 10.00 lakh** is set apart for this purpose. The physical and financial targets allotted for the districts are furnished as Annexure -II.

The planting material produced under this programme may be procured by the department for popularisation across the state through area expansion programme.

Financial Outlay

During 2021-22, an amount of Rs. **90 lakh** is set apart for the implementation of the component 'Development of Tubers' of the scheme 'Promotion of Pulses and Tubers' under the Head of Account **2401-00-112-96(P)**.

Promotion of Pulses and Tubers

Sl. No.	Component	Rate of Assistance	Area / No. proposed to be covered	Total amount required (Rs. in lakhs)
	Development of Tuber crops			
1.	Production and Supply of planting materials of tuber crops	100% subsidy		16.00
2.	Area Expansion / Secondary Seed multiplication of Tuber crops	20000/ha	320 ha	64.00
3.	Tuber Seed multiplication/ Area Expansion in Tribal areas	25000/ha	40 ha	10.00
	Total (Tubers)			90.00

Monitoring, evaluation and documentation

The Principal Agriculture Officers of the respective districts would be in charge of the district level implementation of the programme. Deputy Director of Agriculture (WM) would be the nodal officer at the district level. The Block level Assistant

Directors would be monitoring the programme at block level. The Agricultural Officers / Agricultural Field Officers of the Krishi Bhavans are in charge of the implementation of programme at Panchayat/Municipality/Corporation level.

Additional Director of Agriculture (Farms/Biogas/Vegetables) will monitor and review the scheme at the State level. The Principal Agricultural Officers should invariably submit monthly progress report in the proforma on or before 5th of every month. Since the Government is giving emphasis to women participation and gender budgeting, maximum efforts have to be made to include women beneficiaries in the scheme. The number of women beneficiaries and the amount utilized for such beneficiaries (Component wise) should also be separately shown in the monthly progress report.

The expenditure will be met from the Head of Account 2401 – 00 – 112 – 96 Plan. Receipt of this circular should be acknowledged.


Director of Agriculture

To

All Principal Agricultural Officers

Copy to

CA to Director of Agriculture
CA to all Addnl. Directors of Agriculture
Planning section for allotting funds to the Districts.
DDA, IT Cell for publishing in the website
CTCRI
KAU
Stock file/Spare


23/10/2021
Joint Director of Agriculture (Farms)
Directorate of Agriculture Development
& Farmer's Welfare Department
Vikas Bhavan, TVPM - 33

Annexure I

District-wise Targets for Production & Supply of Quality Declared Planting Materials and Area expansion / Secondary Seed multiplication of Tuber Crops 2021-22

Head of Account : 2401-00-112-96 Plan

Sl No	Name of District	Supply of Quality Declared Planting Materials (upto 100% subsidy)	Area Expansion/ Secondary Seed Multiplication of Tuber Crops Assistance @ 20000/ha		Total amount
		Financial target (Rs. In Lakh)	Area (ha)	Financial	(Rs. In Lakh)
1	Thiruvananthapuram	1.55	31	6.20	7.75
2	Kollam	1.00	20	4.00	5.00
3	Pathanamthitta	1.20	24	4.80	6.00
4	Alappuzha	0.95	19	3.80	4.75
5	Kottayam	1.25	25	5.00	6.25
6	Idukki	0.75	15	3.00	3.75
7	Ernakulam	0.95	19	3.80	4.75
8	Thrissur	1.25	25	5.00	6.25
9	Palakkad	1.55	31	6.20	7.75
10	Malappuram	1.25	25	5.00	6.25
11	Kozhikode	1.55	31	6.20	7.75
12	Wyanad	0.60	12	2.40	3.00
13	Kannur	1.25	25	5.00	6.25
14	Kasargode	0.90	18	3.60	4.50
	TOTAL	16.00 lakh	320 ha	64.00 lakh	80.00 lakh

Annexure -II

District-wise targets for Tuber Seed multiplication/Area Expansion in Tribal Areas 2021-22

Head of Account 2401-00-112-96 Plan

Assistance @ 25,000/ha

SL NO	District	Area ha	Amount (Rs. In lakh)
1	Palakkad	15	3.75
2	Idukki	15	3.75
3	Wayanad	10	2.50
	TOTAL	40 ha	10.00 lakh

PROFORMA
Progress report for the month of202...

Name of District :

Name of scheme :

Financial Year :

Head of Account :

Name of Components & sub-components	Physical (ha)		Financial (Rs. In lakh)		No of beneficiaries					
	Target	Achievement	Target	Achievement	Male	Female	Total	General	SC	Total
									SI	

Principal Agricultural Officer

List of approved/endorsed Decentralised multipliers of tuber crops

District	Name of the contact farmer engaged in tuber crop production	Contact details of the farmer	Name of the tuber crop multiplying by the farmer	Variety	Expected quantity of planting material	Period of availability
Thrissur	Mohammad Rafi	9745424666	Tapioca	Kollaraman	10000	July 15 th
Thrissur	Chandran P.K	9446235270	Tapioca	Local variety (6 months)	70-100	July 15 th
Thrissur	Parameswaran	9847084120	Tapioca	Local variety (6 months)	500	July 15 th
Thrissur	Muhammad Chirapparambil	9946212606	Tapioca	Local Variety	500	July 30 th
Thrissur	Divya	9497557735	Tapioca	Local variety	500	July 15 th
Thrissur	Chithrabhanu	9526563007	Tapioca	Local Variety	500	July 30 th
Kannur	Simi KV	Greens Bakkalam P O Kanul Pin 670562 Ph No 9567813514	Yams (<i>D.alata</i>)	Sree Neelima	400 kg	February 2022
			Yams (<i>D.rotundata</i>)	Sree Haritha	100 kg	February 2022
			Yams (<i>D. alata</i>)	Sree Keerthi	200 kg	February 2022
			Tapioca	Sree Raksha	300 setts	February 2022
Kannur	Lisamma Mathew	Varambakath House Poovaparamba P O Eruvessi (via) Kannur 670632 Ph.no 9747836247	Tapioca	Sree Suvarna	50 setts (for further multiplication in kannur)	July 2021
			Elephant foot yam	Gajendra	500 kg	Jan- Feb 2022
			Yams	Sree Neelima	400 kg	February 2022
Kannur	Jiju E P	Pinakkattu House, Kudiyannmala P O, Kannur Ph.No 9961112428	Elephant Foot yam	Gajendra	500 kg	Jan- Feb 2022
			Yams	Sree Neelima	100 kg	
Kannur	K.C.Pradeepan	Kalathil House Perinkonnu Chengalal Kannur Ph. No: 9526530149	Amorphoph alus	Gajendra	1000 kg	February 2022

11	Girija S	Peringam mala	Thiruvam anthapur am	EFY	Gajendra	15	D/o Sarasamma,Sujin House,Kannunkaitha Elanchiyam,Thenoor Nedumangad,Peringam ala	8281851009
12	Sureshkumar Kani	Peringam mala	Thiruvam anthapur am	Cassa va	Sree raksha, Sree pavithra	25	Alumoodu, Manpurathu veedu, Mjaraneeli, Thenoor Nedumangad,Peringam ala	8593932714
				Sweet potato	Sree Kanaka,Sree Arun, Gouri, Bhukrishna	10		
				EFY	Gajendra	15		

13	Bindu K	Peringam mala	Thiruvam anthapur am	Cassa va	Sree raksha, Sree pavithra	25	W/o. Shailukuttan, Veena Bhavan, Mjaraneeli, Elanchiyam, Thenoor Nedumangad, Peringam ala	8943602511
				Sweet potato	Sree Kanaka, Sree Arun, Gouri, Bhukrishna	10		
14	Anil Kumar A	Nanniyode	Thiruvam anthapur am	EFY	Gajendra	15		
				Cassa va	Sree raksha, Sree pavithra	25	S/o Appu Kani, Anil Bhavan, Vembu, Manalayam, Elavattom P O, Kurupuzha, Nanniyode	9400123410
				Sweet potato	Sree Kanaka, Sree Arun, Gouri, Bhukrishna	10		
15	Ajayakumar B	Nanniyode	Thiruvam anthapur am	EFY	Gajendra	15		
				Cassa va	Sree raksha, Sree pavithra	25	S/o Bhaskaran Kani, Anjith Bhavan, Nagara, Pacha paluvally	9526526570 / 8289893570

				EFY	Gajendra	30		
			Sweet potato		10			
26	Rajeev,		Kollam	Cassa va	Sree Pavithra,	55	Krishmithra, Kalayapuram	9526800979
				EFY	Gajendra	25		
27	Saji,	Anchal	Kollam	Cassa va	Sree Pavithra,	25	Eroor, Anchal	9495472685
				EFY	Gajendra	100		
				Yams	Sree Neelima, SreeKeerthi	25		
28	Jacob Mathew,	Keezhma d	Ernakulam	Cassa va	Sree Pavithra	50	Ariat House, Thottumugham PO, Aluva	9447126101
29	K.K. George	Mulanthuruthi	Ernakulam	Cassa va	Sree Pavithra,	70	Kanjiramkoloth, Thuruthikara, Mulanthuruthi	9447140699
				EFY	Gajendra	50		
30	Kunjiraman	Perambra	Calicut	Cassa va	Sree Pavithra	25	Keezhilethu Nursery, Perambra	9645055963
				EFY	Gajendra	25	Rosary Thoppil, Lakkatoor PO., Kottayam Dist.Kerala 686502	9446500398
31	Thomas Joseph	Ayarkunnam	Kottayam			25		