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Directorate of Agriculture Development and Farmers' Welfare

Vikas Bhavan, Thiruvananthapuram – 695033 e-mail:cru.agridir@kerala.gov.in, Phone: 0471-2304481

No:ADFW/2608/2021-TH2

Date: 27/12/2021

Circular

- Sub:- Department of Agriculture Development and Farmers' Welfare Centrally Sponsored Scheme Sub- mission on Agroforestry (SMAF) Working Instructions issued reg.
- Ref:- 1)Letter F.No. 1-19/2020-NRM-SMAF dated: 02.06.2021 of Department of Agriculture and Farmers Welfare, Government of India.
 - 2)Letter F.No. 1-19/2020-NRM-SMAF(FTS-86745) dated: 28.06.2021 of Department of Agriculture and Farmers Welfare, Government of India.
 - 3) GO(Rt) No. 813/2021/AGRI dated: 12.10.2021.
 - 4) GO(Rt) No. 986/2021/AGRI dated: 06.12.2021.

As per the letter read (1) above, Government of India had approved the Annual Action Plan submitted by the state under the scheme 'Sub-mission on Agro Forestry (SMAF) for an amount of Rs. 100 lakhs for the year 2021-22. This CSS is coming under the ambit of National Mission for Sustainable Agriculture (NMSA) with the objective to expand tree plantation in integrated manner with crops and livestock to improve employment, income and lively hood of rural households, to ensure availability of quality planting materials and to popularise agroforestry models suited to different agro ecological regions.

Vide reference (2) Government of India had released first instalment of funds for the implementation of SMAF in the state. The details of Central Share released and corresponding State Share is as follows.

| | | Central Share | | | |
|--|-------------------|----------------|----------------|----------------|--|
| Sl. | | (Rs. In lakhs) | State Share | Total | |
| No | Category | | (Rs. In lakhs) | (Rs. In lakhs) | |
| 1 | General | 31.92 | 21.28 | 53.2 | |
| 2 | SCP Central Share | 6.72 | 4.48 | 11.2 | |
| 3 | TSP Central Share | 3.32 | 2.24 | 5.6 | |
| and interest the contract of t | Total | 42.0 | 28.0 | 70.0 | |
| | | | | C T Z | |

As per the Government Order cited as reference (3) Government of Kerala

have accorded Administrative Sanction for an amount of Rs. 100 lakhs for the implementation of the scheme 'Sub-mission on Agro forestry in 60:40 sharing pattern of funds between the Central and State.

Government have accorded sanction to release the first instalment funds under SMAF, an amount of Rs. 42 lakhs as Central Share (60%) with a matching state share of Rs. 28 lakhs(40%) totalling Rs. 70 lakh from the corresponding heads of account detailed in the table below through the Expenditure and Advance Transfer (EAT) module of the revised PFMS module.

| SI. | Category | Head of Account | Amount |
|-----|-----------------------|-------------------|---------------|
| No | | | |
| | | | (Rs.in lakhs) |
| 1 | General-Central Share | 2401-00-104-68-01 | 31.92 |
| 2 | General-State Share | 2401-00-104-68-02 | 21.28 |
| 3 | SCP-Central Share | 2401-00-789-73-01 | 6.72 |
| 4 | SCP-State Share | 2401-00-789-73-02 | 4.48 |
| 5 | TSP-Central Share | 2401-00-796-72-01 | 3.36 |
| 6 | TSP-State Share | | |
| | | 2401-00-796-72-02 | 2.24 |
| | TOTAL | | 70.00 |

These amount will be transferred to the implementing agencies through PFMS

The main components under the scheme are the following.

1. Nursery Development for Quality Planting Material Production (NDQPM) in State Govt. Farms-100% funding

NDQPM is to be implemented in Departmental farms. The sub mission will give more emphasis on production of quality planting materials to meet the requirement of farming community. Assistance shall be given

- For establishing big nurseries -2 nos.
- For establishing Hi-tech nurseries-1 no.

The details of various types of nurseries, their specific requirements and pattern of assistance is given in Annexure I(A), I(B), and I(C). The endemic and other species including trees of medicinal value suitable to the Agro Ecological zones of Kerala may only be promoted under the programme. Any species which are exotic and not suitable to local agro ecology will not be supported under the programme.

| The following farms a | are selected for | NDQPM (| during 2021-22 |
|-----------------------|------------------|---------|----------------|
|-----------------------|------------------|---------|----------------|

| Sl.No | District | Type of nursery | Name of farm | Minimum production Capacity | | Target(Rs . In lakh) | Total |
|-------|----------------|-------------------------|--|------------------------------|---------|----------------------|-------|
| | | | | Capacity | General | TSP | |
| 1 | Pathanamthitta | Big Nursery | Sugarcane Seed Farm,Pandala m | 50000 plants/year | 13.2 | 2.8 | 16 |
| 2 | Thrissur | High Tech Nursery | Model Horticultural Farm,Kannar a | 100000 plants/year | 40.0 | 0 | 40 |
| | T | otal | 1 | 150000 | 53.2 | 2.8 | 56 |

2.Assistance for peripheral and boundary plantations (PBP) to farmers (SCP / TSP Component)

Tree species will be grown around the periphery of the farmer's field. To make potential use of the area occupied by the bunds around the periphery of the farmers fields, tree species can be grown as peripheral/boundary plantations to add more income to the farmers' basket. This will not only make effective use of the precious land for livelihood support but also for generating additional income opportunities to the farmers. It will also help in stabilizing the bunds and reducing soil erosion. Eligible components, cost norms and pattern of assistance for PBP is given as Annexure II

The planting materials produced in big and high tech nurseries shall be utilized for the establishment of peripheral and boundary plantations in farmers

fields. During 2021-22, 1 lakh no.of planting materials have to be planted in farmer's field as PBP. PBP have to be established with provision for maintenance for a period of 4 years including gap filling. Assistance will be provided to farmers @ 50% of total cost per plantation and the cost will be segregated for a period of four years in the proportion of 40:20:20:20. The unit cost per plant comes to Rs.70/- and the eligible 50% assistance for 4 years is Rs 35/plant with first year assistance of Rs 14/plant and Rs.7/plant in the subsequent years.

For the effective implementation of the programme component, nearby villages shall be selected to form clusters and maximum number of of saplings shall be planted based on the availability of land. The coverage of plantation would be assessed in terms of running meter with number of plants.

Soil Health Cards is to be made a pre-requisite for farmers in getting the benefit of the programme. The plantation measures would be planned based on the soil health parameters and also this will help in monitoring soil carbon improvement from time to time.

At least 50% of the beneficiaries shall be small, marginal farmers of which at least 30% are women beneficiaries/ farmers. The amount earmarked for the establishment of peripheral and boundary plantations in farmers fields is from Special Component Plan (SCP) and Tribal Sub Plan (TSP). Hence SC/ST beneficiaries in the district should be selected for the implementation of the component.

The physical targets allotted for establishing peripheral/boundary plantations is as follows.

| Sl.No | Name of District | Target(no.o f plants) | Financial Target(Rs. In lakh)SCP fund | Financial Target(Rs. In lakh)TSP fund | Total(Rs. In lakh) |
|-------|---------------------|-----------------------|---|---|-----------------------|
| 1 | Ernakulam | 25000 | 2.8 | 0.7 | 3.5 |
| 2 | Thrissur | 25000 | 2.8 | 0.7 | 3.5 |
| 3 | Malappuram | 25000 | 2.8 | 0.7 | 3.5 |

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| 4 | Palakkad | 25000 | 2.8 | 0.7 | 3.5 |
|---|----------|--------|------|-----|---|
| *************************************** | Total | 100000 | 11.2 | 2.8 | 14.0 |
| | | - | | | water the same of |

Total allocation of Fund

| | Allotted Amount (Rs. in lakh) | | | | | | | | |
|---|-------------------------------|--------------------------|------------------|----------------|------------------|--|------------------|----------------|-------|
| Sl No. | District | Component | General | | SCP | | TSP | | Total |
| | | | Central Share | State Share | Central Share | State Share | Central Share | State Share | |
| *************************************** | Pathanamthitta | Big Nursery - 1 | 7.92 | 5.28 | - | The second secon | 1.68 | 1.12 | 16 |
| 2 | Ernakulam | PBP | *** | - | 1.68 | 1.12 | 0.42 | 0.28 | 3.5 |
| 3 | Thrissur | High Tech Nursery - 1 | 24 | 16 | - | - | - | - | 40 |
| | | PBP | - | - | 1.68 | 1.12 | 0.42 | 0.28 | 3.5 |
| 4 | Malappuram | PBP | | | 1.68 | 1.12 | 0.42 | 0.28 | 3.5 |
| 5 | Palakkad | PBP | | - | 1.68 | 1.12 | 0.42 | 0.28 | 3.5 |
| 342000000000000000000000000000000000000 | Total | | 31.92 | 21.28 | 6.72 | 4.48 | 3.36 | 2.24 | 70 |

The Deputy Director of Agriculture(YP) of the district will be the nodal officer for the implementation of SMAF scheme in the district and they should periodically monitor and evaluate the progress of scheme implementation. At state level, Joint Director of Agriculture(Farms) and the Additional Director of Agriculture (Farms) will co ordinate the programme.

Monitoring & Evaluation:

Monitoring & Evaluation will be the vital and integral part of the sub-mission to assess the implementation and progress of the programme in accordance with the set norms and guidelines. Apart from coverage of area under plantation, the performance of the scheme will be monitored based on a few

quantifiable success indicators viz., Number of plants in area/ periphery, Soil carbon sequestration, soil organic matter, improvement in livelihood, productivity enhancement of crop and cropping systems etc. Mechanism for monitoring information system (MIS) and periodical assessment using GIS technologies would be adopted for ensuring effective implementation of the programme. The digital location of the cluster with the attributes of interventions like plantation area, number of plants, name of beneficiaries, details of nurseries, project cost etc need to be uploaded in the Bhuvan Platform.

Districts are required to furnish quarterly and annual progress report as per formats given at Annexure-VI.

> SUBHASH T.V. IAS DIRECTOR

To:

Principal Agricultural Officers Pathanamthitta, Ernakulam, Thrissur, Malappuram, Palakkad

Copy to:

Planning Section SW Section DD, IT Cell Stock file / Spare

R. SONYA

Additional Director of Agriculture (Farms, VO & Ringas) Directorate of Agricultural December 1 and Farmer's Welfa. Vikas Bhavan, Thiruwara

Annexure-I (A)
Cost Norms and for Nursery Development for Production of Quality Planting
Material (NDQPM)

| Sl. No | Nursery area(ha) | Indicative field of expenditure | indicative Unit cost (Lakh Rs) |
|--------|-------------------------------|---|-----------------------------------|
| 1. | Small Nursery (0.5ha)** | Land preparation etc., nursery equipments, seed/mother scion production/root stock production etc., infrastructure and other essential operational costs etc. as per norms as existed in case of MIDH | |
| 2. | Big Nursery (1.0 ha) | . v:tjor | 1 16.00 |
| 3. | Hi-tech** Nursery | | 40.00 |

^{**} Cost norms as already approved under National Bamboo Mission (NBM)

RATIONAL GUIDELINES: SUB-MISSION ON AGROFORESTRY (SMAF) UNDER NIMBA

Annexure-I(B)

Mandatory Requirement for availing support for Nursery Development

| S.No. | Type of Nursery | Basic Requirement | Infrastructure Requirements |
|-------|------------------------------|--|--|
| 1. | Small Nursery (0.5 ha) | Selection of Site Nurseries will be established only to produce planting material which are suitable for that agroecology. The nurseries should be well connected to road / rail networks to facilitate transport. Sites exposed to strong winds and with danger of flooding or landslides should be avoided. Soil Conditions Well drained, light to medium textured fertile soils. | Fencing Water Source (Irrigation source/Ponds/ Tanks/ Well/ Tube well) Energy Source (electricity or Genset) Water lifting devices Water distribution system Farm machineries required for land preparation, bed preparation and other operations Other equipments & tools for raising seedlings Composting Unit Watch & ward |
| 2. | Big Nursery (1.0 ha) | Source of Irrigation Availability of good quality assured irrigation source is an essential pre-requisite for setting up of a commercial nursery production unit. For increased water use efficiency, Drip irrigation system, rose cans or micro sprinklers should be used. Layout of Nursery Generally a good nursery must consist of water tank/pond, water pump/pump house, seed and fertilizer store room, implement shed, germination/main bed area; potting/container filling area, | As above. Number of equipments may increase or decrease based on size of nursery of the character recurred for production of the character recurred for production of the character for the ch |
| 3. | Hi-tech Nursery | seedling raising area, worker mess/hall, office room, propagation structures, compost | Office An office building, best located near |

High-tech green house

Green-house with automated misting equipments and temperature control is desirable but low cost polytunnels can also be an alternative

Irrigation systems

Modern mechanized irrigation systems with sprinklers, misting units, high pressure pumps and filtering equipments for fertigation are essential components to be installed and used in nurseries

Pump house with overhead water storage tanks

The tanks should have enough storage capacity to meet at least 2 days irrigation requirements

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Nursery records 11

Note:

- The Small nursery will have a minimum capacity to produce 25,000 plants per year.
- The Big nursery will have a minimum capacity to produce 50,000 plants per year.
- The High-tech Nurseries will have a minimum capacity to produce 100,000 propagules per year
- Assessment of nursery for its quality/standard will be done on the basis of its location, quality of mother plants, techniques for nursery development, infrastructural facilities created, irrigation facilities with water use efficiency, bio-security & disease free conditions and overall management practices. Assessment of nursery for accreditation / certification will be undertaken either through any of the available institutional certification mechanism of Central / State Government or through suitable institutional mechanism to be devised specifically for this purpose in future.

Annexure-II

14.0

Cost Norms and Pattern of Assistance for Peripheral and Boundary Plantation (PBP)

| Sl. No. | Type of Interventions | Indicative Unit cost per plant (Rs.) |
|------------|---|---|
| 1 | Pre-Plant activities/Land clearing/maintenance etc. | 10.00 |
| 2 | Digging / Planting etc | 6.00 |
| 3 | single unit Planting material etc | 15.00 |
| 4 | Transportation charges | 1.00 |
| 5 | Critical inputs viz., FYM, Fert., seed treatment, PP chemicals etc. | 10.00 |
| 6 | Planting cost | , paralogo april 2.00° |
| 7 | Fencing | 10.00 |
| 9 | Maintenance (weeding+ watering etc.) | p (15.00) |
| 12 | Total | 70.00 |

Note:

- (i) The activity wise cost indicated above are tentative and states have the flexibility to formulate their own estimate based on local requirements subject to a maximum of Rs. 70/- per plant
- (ii) The assistance will be given in the year wise proportion of 40:20:20:20 for four years.

10.00 in the second sec

Annexure-VII

Region / State - wise priority list of Medicinal Plants species for Plantation

(As suggested by AYUSH)

| Sr. No. | Regions/ States/ UTs | Trees | | Climbers/Shrubs |
|-------------|---|---------------------------|----------------------|--------------------------------|
| 1. | East India: | Aegle marmelos | | Adhatodavasica |
| | Bihar, Orissa, | Albizziallebbeck | | Asparagus racemosus |
| | Jharkhand, West Bengal | Azadirachtaindica | secretarion specific | Desmodingangeticum |
| | and Andaman & Nicobar Islands, | Caesalpiniasappan | | Embeliaribes |
| | , | Emblica officinalis | | Gymnemasylvestre |
| | | Eugenia jambolana | | Mucunapruriens |
| | | Garcinia indica | | Piper longum |
| | | Gmelinaarborea | | Tinosporacordifolia |
| | | Holarrhenaantidysenterica | 1 E | rie mas dur Elem etimi |
| | | Litseaglutinosa | | |
| | | Moringaoleifera | **** | (None a Not Extended |
| | | Santalum album | | |
| | | Saracaasoca | | A find street of |
| | | Tamarindusindica | | Sinal dati Canthe |
| | | Terminalia arjuna | ** | in Cresory, regardle important |
| | | Terminalia bellirica | | and the desired |
| | | Terminalia chebula | | 自 <i>取</i> 自力量表现的。 |
| | | | | a accipartant to |
| | North India: | Aegle marmelos | | Adhitodavasica |
| | Jammu and Kashmir, | Albizziallebbeck | | Asparagus racemosus |
| | Himachal Pradesh, | Azadirachtaindica | | Embeliaribes |
| Utta Har | Punjab, Uttarakhand , Uttar Pradesh, | Berberisaristata | | Gymnemasylvestre |
| | Haryana, Chandigarh | Caesalpiniasappan | | Mucunapruriens |
| | and Delhi | Cinnamomumtamala | | Tinosporacordifolia |
| | | Cinnamoniumverum | | The Market Control |
| | | Emblica officinalis | | and the second second |
| | | Eugenia jambolana | | |
| | | Ginkgo biloba | | |

Department of Agriculture, Cooperation & Farmers Welfare

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OPERATIONAL GUIDELINES: SUB-MISSION ON AGROFORESTRY (SMAF) UNDER NMSA

| 1 | Andhra Pradesh, | Albizziallebbeck | | Desmodiumgangeticum |
|---|---------------------------------|---|--|-----------------------|
| S | South India: | Aegle marmelos | | Adhatodavasica |
| | | Terminalia bellirica | | |
| | | Terminalia arjuna Terminalia bellirica | | Throger code (Mr) |
| | | Stereospermumsuaveolens | | Tapanak jara |
| | | Saracansoca | | the ment for |
| | | | | 1, 20%, 11 (A E C C C |
| | | Pterocarpus marsupium Santalum album | | Talk British |
| | | Oroxyiumindicum | ************************************** | ramer a monarca. |
| | | Moringaoleifera | | |
| | | MORINDACITRIFOLIA | | |
| | | Litseaglutinosa | | |
| | | Holarrhenaantidysenterica | | |
| | | Garcinia indica | | |
| | | Emblica officinalis | | Tinosporacordifolia |
| | | Commiphorawightii | | Piper longum |
| | | Caesalpiniasappan | | Mucunaprurita |
| | rauesii | Azadirachtaindica | | Gymnemasylvestre |
| 1 | Chhattisgarh, Madhya Pradesh | Albizziallebbeck | | Embeliaribes |
| | entral India: | Aegle marmelos | | Asparagus racemosus |
| | | | | |
| | | Zenthoxylumalatum | | |
| | | Terminalia bellirica | | |
| | | Terminalia arjuna | 1. 4 | |
| | | Taxuswallichiana | | |
| | | Tamarindusindica | | |
| | | Stereospermumsuveolens | | |
| | | Saracaasoca | | |
| | | Santalum album | | |
| | | Litseaglutinosa | | |
| | | Holarrhenaantidysenterica | | |
| | | Hippophaerhannoides | | |
| 1 | 1 | Gmelinaarborea | | |

OPERATIONAL GUIDELINES: SUB-MISSION ON AGROFORESTRY (SMAF) UNDER NINSA

| Karnataka, Kerala, | A = - H = -1 + 1 ' - 1' | | | |
|---|---------------------------|-------------------|---|--|
| Telangana Tamil Nadu, Lakshadweep and Puducherry | Azadirachtaindica | | Gymneinasylvestre | |
| | Boswelliaserrata | The second second | Mucunapruriens | |
| | Caesalpiniasappan | | Piper longum | |
| | Cinnamomumzeylanicum | | Plumbagozeylanica | |
| | Commiphorawightii | | | |
| | Emblica officinalis | | | |
| | Eugenia jambolana | | | |
| | Garcininaindica | | | |
| | Gmelinaarborea | | | |
| | Litseaglutinosa | | | |
| | MORINDACITRIFOLIA | | | |
| | Pterocarpus marsupium | | | |
| | Pterocarpussantalinus | | (1) 11 11 11 11 11 11 11 11 11 11 11 11 1 | |
| | Santalum album | | Managa ka | |
| | Saracaasoca | | They or have the | |
| | Semicarpusanacardium | | - The trapping are in | |
| | Stereospermumcolais | : | | |
| | Tamarindusindica | 3 | | |
| | Terminalia arjuna | 2 | | |
| | Terminalia bellirica | | | |
| | Terminalia chebula | | | |
| | Vateriaindica | | | |
| | | | | |
| Western India: | Aegle marmelos | | Adhatodavasica | |
| Rajasthan , Gujarat, Goa, Maharashtra and Daman & Diu | Albizziallebbeck | | Asparagus racemosus | |
| | Azadirachtaindica | | Celastruspaniculatus | |
| | Caesalpiniasappan | | Desmodiumgangeticum | |
| | Cinnamoniumzeylanicum | | Embeliaribes | |
| | Commiphorawightii | | | |
| | Emblica officinalis | | Leptadenia reticulate | |
| | Eugenia jambolana | | Mucunapruriens | |
| | Garcininaindica | | Piper longum | |
| | Gmelinaarborea | | Plumbagozeylanica | |
| | Holarrhenaantidysenterica | | Tinósporacordifolia | |
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