

Guidelines for Implementation of Sub-Mission on Agroforestry for the year 2021-22

Agroforestry is known to have the potential to mitigate the climate change effects through microclimate moderation, conservation of natural resources and creation of additional source of livelihood and income opportunities. In order to make agriculture less vulnerable to climatic aberrations, Government of India formulated the National Agroforestry Policy in 2014. The policy recommends for setting up of a Mission or Board to address development of agroforestry sector in an organised manner. The Sub-Mission on Agroforestry (SMAF) under NMSA is an initiative to this end. The aim of the submission is to expand the tree coverage on farmland in complementary with agricultural crops. Agroforestry not only provides environmental services, but also economic gains, as about 65 % of the country's timber requirement is met from the trees grown outside forests.

The mission is focused to achieve the quantifiable benefits such as increase tree cover to enhance carbon sequestration, enrichment of soil organic matter, availability of quality planting material, improvement in livelihood, productivity enhancement of crop and cropping systems, development of an information system etc.

The Objectives of Sub-Mission on Agroforestry is as follows:

- To encourage and expand tree plantation in complementary and integrated manner with crops and livestock to improve productivity, employment
OPERATIONAL GUIDELINES: SUB-MISSION ON AGROFORESTRY (SMAF) UNDER NMSA Department of Agriculture, Cooperation & Farmers Welfare 2 opportunities, income generation and livelihoods of rural households, especially the small farmers.
- To ensure availability of quality planting material like seeds, seedlings, clones, hybrids, improved varieties, etc.
- To popularise various Agroforestry practices/models suitable to different agro ecological regions and land use conditions.

- To create database, information and knowledge support in the area of agroforestry.
- To provide extension and capacity building support to agroforestry sector.

The area particulars of Agroforestry species in the State, as per RSSS data which inclusive of TKHH programme, is annexed at Ann-I for reference.

Points to be considered before taking up of Agro Forestry plantation :

- High water-guzzling plant species and species with high transpiration rate like Eucalyptus/ exotic species etc. may be avoided and other local multipurpose species/options may be used.
- Efforts to be made to converge Micro-irrigation (central/state Govt. Schemes) activities with Block Plantation to achieve higher survival rate 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.
- Village covered under Sansad Adarsh Gram Yojana and reward villages that have become free from open defecation may be given additional weightage in selection of clusters.
- Efforts should be made to encourage farmers for mixed planting of various endemic species having multipurpose use, to discourage monoculture.
- The cost norm, pattern of assistance and other procedural requirements as prescribed in the guidelines be strictly adhered to in the implementation of Mission activities/interventions.
- Specific convergence modules with different programmes/scheme of the DAC&FW to be ensured for holistic development of the cluster.
- Peripheral plantation of trees may be encouraged along the farm boundary and on the bunds of farm pond to provide additional income to the farmer and to ensure that the crop production is not adversely affected. Block Plantation is to be taken up only on the land where farmer is not practicing agriculture.

Action Plan proposed to Gol :

Sl. No.	Component	Unit cost Lakhs (40:20:20:20)	Pattern of assistance (%)	Physical target (Ha./ Units)			Financial (in lakhs)			
				Govt	Pvt.	Total	Total Cost	Total subsidy for 1st year (40%)	Central Share (60%)	State Share (40%)
1	2	3	4	5	6	7	8	9	10	11
i)	Nursery Development for quality planting material (NDQPM)									
ii)	Peripheral and Boundary plantation (PBP) Rs.70/- per plant is UC. Subsidy for 4 years is Rs.35/- 1st year Rs.14/- (40%), 2nd year, 3rd year, 4th year Rs.7/- each (20%)	Rs.70/- per plant	50%		100000	100000	70.00	14.00	8.40	5.60
iii)	Low density plantation on farm lands (LDPFL)									
iv)	High Density Block Plantation (HDBP)									
a	500 to 1000 (spacing 3.5mx3.5m)	0.30	50% pvt.		0	0	0.00	0.00	0.00	0.00
b	>1000 to 1200 (spacing 3mx3m) Total subsidy Rs.17,500/-, 1st year Rs.7,000/- (40%) 2nd, 3rd & 4th year Rs.3,500/- each (20%)	0.35	50% pvt.		158	158	55.30	11.06	6.64	4.42
c	>1200 to 1500 (spacing 2.5mx2.5m) Total subsidy Rs.22,500/-, 1st year Rs.9,000/- (40%) 2nd, 3rd & 4th year Rs.4,500/- each (20%)	0.45	50% pvt.		370	370	166.50	33.30	19.98	13.32
d	> 1500 no. of plants per block of 1 ha. and spacing (2.5 x 2.5 mtrs). Total subsidy Rs.25000/-, 1st year Rs.10,000/- 2nd, 3rd & 4th year Rs.5,000/- each (20%)	0.50	50% pvt.		1000	1000	500.00	100.00	60.00	40.00
v)	Demonstration of Agroforestry Model									
vi)	Capacity Building & Trainings (5%)						8.30	8.30	4.98	3.32
Total							800.10	166.66	100.00	66.66

Scheme Components :

I) Peripheral boundary plantation (PBP):

Peripheral boundary plantation (PBP) with provision for maintenance for a period of four years including gap filling will be supported. The coverage of plantation would be assessed in terms of running meter with number of plants. Incentives/assistance will be given @ 50% of the total cost per plantation and the cost will be segregated for a period of four years in a proportion of 40:20:20:20. The indicative cost of plantation per plant is given at **Annexure-II**.

Unit cost	:	Rs.70/- per plant.
Total Subsidy	:	Rs.35/- (for 4 years) @ 40:20:20:20
1 st year subsidy	:	Rs.14/- (@ 40%),
2 nd , 3 rd and 4 th year subsidy	:	Rs.7/- each (@ 20%)

II) High Density Block Plantation (HDBP) :

Block plantations of agroforestry species starting from 1 ha block to higher areas with varying number of plants per block under different spacing shall be supported under the programme. For sustaining the plantation activities, the assistance will be provided in a phased manner spread across four years in the proportion of 40:20:20:20. The indicative cost of plantation for different planting intensity is given at **Annexure-III**.

a) >1000 to 1200 (spacing 3mx3m)

Unit cost	:	Rs.35,000/- per ha.
Total Subsidy	:	Rs. 17,500/- (for 4 years @ 40:20:20:20)
1 st year subsidy	:	Rs.7,000/- (@ 40%),
2 nd , 3 rd and 4 th year subsidy:	:	Rs.3,500/- each (@ 20%)

b) 1200 to 1500 (spacing 2.5mx2.5m)

Unit cost	:	Rs.45,000/- per ha.
Total Subsidy	:	Rs. 22,500/- (for 4 years @ 40:20:20:20)
1 st year subsidy	:	Rs.9,000/- (@ 40%),
2 nd , 3 rd and 4 th year subsidy:	:	Rs.4,500/- each (@ 20%)

c) > 1500 no. of plants per block of 1 ha. and spacing (2.5 x 2.5 mtrs).

Unit cost	:	Rs.50,000/- per ha.
Total Subsidy	:	Rs. 25,500/- (for 4 years @ 40:20:20:20)
1 st year subsidy	:	Rs.10,000/- (@ 40%),
2 nd , 3 rd and 4 th year subsidy:		Rs.5,000/- each (@ 20%)

- The District wise targets are annexed at **Annexure-IV**.
- Indicative Unit cost as per SMAF Guidelines for different components under AAP 2021-22 are as follows.

Sl. No.	Type of Interventions	Unit cost under Boundary Plantation / Peripheral per plant for 4 years (Rs.)	Unit cost under High Density Block Plantation per ha. for 4 years		
			>1000 to 1200 (spacing 3mX3m) (UC = Rs.35,000)	>1200 to 1500 (spacing 2.5mX2.5m) (UC = Rs.45,000)	>1500 (spacing less than 2.5mX2.5m) (UC = Rs.50,000)
1	Pre-Plant activities/Land clearing/maintenance etc.	10	5000	6429	7143
2	Digging /Planting etc	6	3000	3857	4286
3	single unit Planting material etc	15	7500	9643	10714
4	Transportation charges	1	500	643	714
5	Critical inputs viz., FYM, Fert., seed treatment, PP chemicals etc.	10	5000	6429	7143
6	Planting cost	2	1000	1286	1429
7	Fencing	10	5000	6429	7143
9	Maintenance (weeding+ watering etc.)	16	8000	10286	11429
	Total	70	35000	45000	50000

- DH&SOs shall identify the beneficiaries with due approval of Gram Panchayat and display the approved list to Gram Panchayat.
- Beneficiaries should have assured water and power supply.
- DH&SOs shall collect the application in the prescribed format (**Annexure-V**) duly collecting the copies of Aadhar Card, Bank account pass books and land documents.
- DH&SOs can source plant material for CoEs, Forest Nurseries, Pvt. Nurseries.
- DH&SOs and HOs certify the application and take administrative sanctions by District Collector and furnish the proceedings to Head Office for release of funds.
- DH&SOs shall submit monthly progress report in prescribed format (**Annexure-VI**).

- Release of subsidy will be made to beneficiary account (Direct Benefit Transfer) based on DH&SOs submission of Collector approved sanction proceedings.
- Subsidy will be released based on the releases made by the Govt.

Expected Outcome :

The implementation of the sub-mission will result in the following quantifiable benefits:

- Agroforestry will provide additional income/savings opportunities for farmers and will also serve as a cushion to crop damage.
- Increase in tree cover through Agroforestry will lead to higher carbon sequestration and compliment the National initiatives on climate change adaptation and mitigation efforts.
- Trees grown in farm land will help in enriching soil organic matter and will enhance nutrient uptake of the crops measurable under different time interval (mid & end of the programme). This can be periodically assessed from the soil health status depicted on the soil health card to be issued to the farmers from time to time.
- Contribute in availability of agroforestry produce to meet the increasing demand of raw materials for wood-based industries which will result in saving of foreign exchange being used for impost of wood and wood-based products.
- Development of information system and database on agroforestry.
- Income & livelihood generation of the farmers.