

**DETAILED GUIDELINES FOR CULTIVATION OF DIFFERENT  
MEDICINAL PLANT SPECIES UNDER NMMP- 2011-12 & ONWARD  
(Aonla / Bael /Ashok/ Ashwagandha / Sarpgandha / Ghrit Kumari /  
Pipali /Shatavari / Tulasi /Giloe )**

1. Different species like Aonla, Bael, Ashoka, Aswagandha, Sarpagandha, Ghrit Kumari, Pipali, Shatavari, Tulasi & Giloe will be taken up in compact patches in the farmer's field. However, depending upon local interest & market demand more new crops can be added.
2. At the time of selection of beneficiaries, suitability of soil, irrigation sources, interest and capability of the farmers to maintain the plantation/ cultivation shall be taken into consideration. The beneficiary concerned will remain responsible for success of the plantation/ cultivation.
3. Spacing / population recommended and qualified for assistance for medicinal crop plantations per ha. are as follows :

<b>Crop</b>	<b>Spacing</b>	<b>Plant population / ha.</b>
Aonla ( <i>Emblica officinalis</i> )	- 7m x 7m	- 200 nos
Bael ( <i>Aegle marmelos</i> )	- 7m x 7m	- 200 nos
Ashoka ( <i>Saraca indica</i> )	- 6m x 6m	- 275 nos
Ashawagandha ( <i>Withania somnifera</i> )	- 45cm x 30cm	- 74000 nos
Sarpgandha ( <i>Raowolfia serpentina</i> )	- 45cm x 30cm	- 74000 nos
Ghrit Kumari ( <i>Aloe vera</i> )	- 60cm x 45cm	- 36500 nos
Pipali ( <i>Piper longum</i> )	- 60cm x 60cm	- 27660 nos
Shatavar ( <i>Asparagus racemosus</i> )	- 60cm x 60cm	- 27660 nos
Tulasi ( <i>Ocimum sanctum</i> )	- 40cm x 40cm	- 62500 nos.
Giloe ( <i>Tinospora cordifolia</i> )	- 1m x 1m	- 10000 nos

**Pattern of Assistance :**

4. Assistance up to 20% of total cost limited to maximum of Rs.13,000/- per hect. for Aonla, Rs. 5,000/- per ha. for Ashwagandha, Rs.8,500/- per ha. for Ghrit kumari , Rs.12,500/- per ha for Pippali, Rs. 12,500/- per ha for Shatavari, Rs. 6,000/- per ha for Tulasi and 50 % of total cost limited to maximum Rs.20,000 /- per ha. for Bael, Rs.31,250/- per ha for Sarpgandha, Rs.31,250/- per ha for Ashoka & Rs. 5500/- per ha. For Giloe will be provided to the beneficiaries over a period of 3 years in the

ratio of 65:20:15 for Aonla, Ashoka, Bael. Over a period of 2 years in the ratio of 75:25 for Sarp Gandha, Shatavari, & over a period of one year for Ghrit kumari (Aloevera), Ashwagandha, Tulasi, Pipali, Giloe.

### Scale of Subsidy:

Crop wise and year wise assistance under different medicinal crops detail is furnished below: (Rate of assistance per ha)

SL. No.	Name of the Crop	1st Year (65%)	2 <sup>nd</sup> year (20%)	3 <sup>rd</sup> year (15%)	Total
1	Aonla (200 plants per ha. with cultivation cost @ Rs.13,000 /- per ha.)	8450	2600	1950	<b>13000</b>
2	Bael (200 plants per ha with cost of cultivation @ Rs.20,000 /- per ha. )	13000	4000	3000	<b>20000</b>
3.	Ashoka (275 no.plants per ha. With cost of cultivation of Rs. 31250/- per ha.)	20312	6250	4688	<b>31250</b>
		<b>1st Year (75%)</b>	<b>2<sup>nd</sup> year (25%)</b>		<b>Total</b>
4	Sarp Gandha(74000 plants per ha.with cultivation @ Rs.31250/- per ha.)	23438	7812	--	<b>31250</b>
5	Shatavari(27600 plants per ha with cost of cultivation @ Rs.12500/- per ha. )	9375	3125	--	<b>12500</b>
		<b>1st Year (100%)</b>			<b>Total</b>
6	Pipali (27600 stem cuttings per ha with cost of cultivation @ Rs.12500/- per ha)	12500			<b>12500</b>
7	Ghrit kumari (36500 suckers per ha with cost of cultivation @ Rs.8500 /- per ha)	8500			<b>8500</b>
8	Ashwagandha(74000 plants per ha .with cultivation @ Rs.5000/- per ha.)	5000	--	--	<b>5,000</b>
9	Tulasi(62500 stem cuttingsper ha with cost of cultivation @ Rs.6000/- per ha	6000	--	--	<b>6000</b>
10	Giloe (10000 plants per ha. With cultivation cost @ Rs. 27500/- per ha.	5500	-	-	<b>5500</b>

5. Subsidy is permissible for a *minimum area of 0.4 ha. for Aonla , Ashoka, Bael crops and 0.1 ha in case of Ashwagandha, Sarpgandha, Shatavar, Ghrit kumari , Tulasi, Pippali, Giloe for an individual beneficiary in a compact patch . There is no limit for maximum area. It is further clarified that full subsidy will not be given to individual farmer if the plantation area is less than 0.4 ha./ 0.1 ha as per crop specification.* However, farmers interested to raise the above crops in less than 0.4 ha. area may avail 75 % subsidy only on planting materials to be provided. These farmers (all categories) will raise the plantation in clusters, preferably adjacent to bigger patches. In any case such small scale planting may not exceed 20 % of total programme and such small units in a cluster shall be of *a minimum of 2 ha covering minimum 5nos farmers from adjacent villages.*
6. The farmers can avail assistance for more than one crop.

**Selection of Beneficiary :**

7. The beneficiary will apply to the concerned Horticulturist / AHO in the prescribed format as per **Annexure-I** to take up plantation/ cultivation & to avail subsidy.
8. The land of the beneficiaries should be identified well in advance by April & the beneficiary list will be prepared separately for each crop.
9. Token price i.e 25% of the cost of the QPM is to be collected from the individual beneficiary in case of Aonla only.

**Field Preparation :**

10. Digging of pits by the beneficiary should be completed by 10<sup>th</sup> June at the latest. The pit size of different long duration crops is given below :

Aonla / Ashoka / Bael	1m x 1m x 1m
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**Arrangement / Lifting of QPM :**

11. Arrangement will be made by the concerned Horticulturist / AHO to lift planting material as per target/ diversion programme.
12. After unloading of the planting materials at the site proper nourishment of plant should be taken to overcome the transportation shock.
13. The planting materials will be supplied to the beneficiaries on payment of 25% of the cost of the planting material in advance if approved in the cost structure.
14. Planting should be started immediately after the onset of monsoon and completed by 31<sup>st</sup> August.

15. The beneficiaries should be imparted training before plantation

Details of component wise financial assistance / subsidy in medicinal plantation under NMMP is furnished as “cost structure” along with diversion programme of planting materials.

- a. The subsidy amount for first year for different crops (as mentioned in the above table) will be paid to the beneficiary in shape of A/c payee cheque after deducting the cost of planting material including transportation, loading unloading & miscellaneous component as mentioned in the Cost structure
- b. The Cost towards installation of Display Board in the farmers field, if not mentioned in the component wise subsidy breakup, expenditure will be made by the Horticulturist out of Miscellaneous component.

**Example : For Aonla Plantation**

a. Total subsidy for 1 <sup>st</sup> year for 1 ha. (NMMP share)	Rs. 8450/-
b. Farmers share collected (Rs.5/- per plant)	Rs.1000/-
<b>Total funds available</b>	<b>Rs.9450/-</b>
<b>Expenditure incurred</b>	
a. Cost of the Planting material including internal transportation & loading unloading @ Rs.17.30/- per graft for 200 nos grafts	Rs.3460
b. Provision for display board (incurred by concerned Hort. / AHO)	Rs.250/-
<b>Total Expenditure</b>	<b>Rs.3710/-</b>
c. Balance subsidy to be released to the beneficiary (Rs.9450.00 – Rs.3710.00)	Rs.5740/-

**Release of Subsidy :**

16. The subsidy will be released to the beneficiary in shape of **A/c payee cheque** in one installment at the time of plantation.

17. Subsidy for 1st year maintenance of different crops (as per the above Table – 2<sup>nd</sup> yr.) will be released to the individual beneficiary for of the crop, subject to survival of plant not less than 75% after verification.

18. Subsidy for for 2nd year maintenance different crops (as per the above Table – 3<sup>rd</sup> yr.) will be released to the individual beneficiary of the crop, subject to 90% of survival of plant after verification.

19. Concerned Horticulturist / AHO & JHO will verify the survivability position of the plantation during the month of April of each year as per the prescribed format at **Annexure- II for 2<sup>nd</sup> yr. & 3<sup>rd</sup> yr.** and submitted to concerned DDH.
20. Concerned DDH will make 10 % random check in the field within 15<sup>th</sup> May & submit the list of eligible beneficiaries with numbers of plant available, area covered & % of survival to this Directorate for release of subsidy to the concerned Horticulturist/ AHO.
21. The list of eligible beneficiaries with no. of plant available, area covered & % of survival will be placed before the District Mission Committee for approval before June.
22. Subsidy amount towards maintenance ( 2<sup>nd</sup> yr. & 3<sup>rd</sup> yr.) will be released to the beneficiaries by the concerned Hort/ AHO on the onset of the monsoon of the respective calendar year within July.
23. The concerned Horticulturist / JHO should educate the farmers to utilize the organic fertilizers / biopesticide in the plantation field out of the subsidy amount released to them. They may enhance the input.
24. Govt. has fixed average rate of transportation taking the state distance as a whole in the cost structure communicated. Hence, individual Horticulture / Asst. Hort. Officer should calculate the rate of transportation observing distance to be covered in his area.

**Monitoring :**

25. Regular visit of the field staff to plantation site shall be ensured by the concerned supervising officials.
26. Fencing/ making of tree guard should be ensured for the plantation site/ individual plant by the beneficiary.
27. Installation of pitcher and utilization of mulching materials must be ensured for success of the plantation.
28. Concerned Horticulturist on weekly basis and D.D.H on fortnightly basis should monitor the collection and deposit of farmer's share in the society account. In no case the fund collected should be kept more than a week with J.H.O./ H.O./ Grafter / Gardener.

29. Year wise and crop wise plantation register should be maintained at the Horticulturist / AHO's office in the following proforma.

Sl. No.	Name of the farmer	Fathers name & address	Category of the farmers	Date of plantation	Area covered (Ha)	No. of plants planted	Variety	Source Farm	Qty. of bio fertilizer used
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>

Intercultural operation if any	Survival at the end of 1 <sup>st</sup> year	Nos gap filled during 2 <sup>nd</sup> year	Survival at the end of 2 <sup>nd</sup> year	Nos gap filled during 3 <sup>rd</sup> year	Survival at the end of 3 <sup>rd</sup> year	Remarks
<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>

30. The field staff I/c of plantation for the GP/Block should also maintain a register with above table and additional column mentioning date of intercultural operation and application of fertilizers etc. given as assistance. The field staff concerned should always carry this register with him during field visit and produce before the supervising officer / verifying officer during their field visit to the field and get it checked with signature and date of verifying officer.
31. A copy of the approved beneficiary list in book form & a soft copy should be submitted to the mission headquarters after plantation over for record.
32. The concerned D.D.H should furnish the requirement of funds of his range officers to the mission headquarter for the release of fund.



**Survivability Certificate**

Certified that the Aonla / Bael / Ashok / Aswagandha /Sarpagandha /Shatavari/ Pipali/ Aloevera/ Giloe / Tulasi plantation taken up by Sri\_\_\_\_\_ Vill\_\_\_\_\_,G.P.\_\_\_\_\_Dist.\_\_\_\_\_ during the year\_\_\_\_\_ under the National Horticulture Mission Programme has survivability of \_\_\_\_\_ % for \_\_\_\_\_ year . So the beneficiary is eligible / not eligible to avail subsidy for Rs.\_\_\_\_\_ amount for \_\_\_\_\_ year (2<sup>nd</sup> / 3<sup>rd</sup>). His name is recommended / not recommended for release of subsidy.

Gardner / Grafter /F.T./H.O.

JHO

Horticulturist / AHO

Countersigned and recommended for release of subsidy amounting to

Rs\_\_\_\_\_.

Deputy Director of Horticulture.



