

**DETAILED GUIDELINES FOR ESTABLISHMENT OF NEW
GARDERN UNDER NHM AND NON-NHM - 2011-12
(Cashew ,Mango, Litchi, K.lime, Orange,Banana)**

1. Perennial fruit crops like Mango, Litchi, K.lime, Orange, non-perennial crops like Banana & plantation crops like cashew will be taken up in compact patches in the farmer's field.
2. At the time of selection of beneficiaries, suitability of soil, irrigation sources, interest and capability of the farmers to maintain the plantation shall be taken into consideration. The beneficiary concerned will remain responsible for success of the plantation.
3. Spacing / population recommended and qualified for assistance for fruit crop plantations per ha. are as follows :

<u>Name of the Crop</u>	<u>Spacing</u>	<u>No. of plants / ha.</u>
Mango	- 10m x 10m	- 100 nos
Litchi	- 7.5m x 7.5m	- 178 nos
K.lime	- 6m x 6m	- 278 nos
Orange	- 6m x 6m	- 278 nos
Banana Sucker	- 2m x 2m	- 2500 nos
Banana T.C.	- 1.8m x 1.8m	- 3086 nos.
Cashew	- 7m x 7m	- 200 nos

Pattern of Assistance :

4. Assistance up to 75 % of total cost limited to maximum of Rs.16,500/- per hect. for mango, Rs.20,000/- per ha for cashew, Rs.21,923/- per ha. for litchi, Rs.25,005/- per ha. for Citrus (K.lime/ Orange) over a period of 3 years in the ratio of 60:20:20. For Banana sucker 50 % of total cost limited to maximum Rs.22,500 /- per ha. & Rs.41,602/- per ha. for Banana Tissue Culture over a period of 2 years in the ratio of 75:25 will be provided to the beneficiaries.
5. Subsidy is permissible for a *minimum area of 0.4 ha. and up to maximum 4.0 ha. for all fruit crops stated above for an individual beneficiary in a compact patch of 4 ha. or above.*

In case of banana, subsidy is permissible for a *minimum area of 0.25 ha. and up to maximum 4.0 ha. for an individual beneficiary in a compact patch of 4ha. or above.*

6. The farmers can avail assistance for more than one fruit crop within the prescribed ceiling.

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 & 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. Land details including map should be incorporated in the case records.
9. Token price i.e 25% / 50% of the cost of the QPM is to be collected from the individual beneficiary.

Field Preparation :

10. Digging of pits by the beneficiary should be completed by 10th June at the latest.
The pit size of different fruit crops is given below :

Mango	1m x 1m x 1m	K.Lime	0.75m x 0.75m x 0.75m
Litchi	1m x 1m x 1m	Cashew	1m x 1m x 1m
Orange	0.75m x 0.75m x 0.75m	Banana	0.5m x 0.5m x 0.5m

Arrangement / Lifting of QPM :

11. Arrangement will be made by the concerned Horticulturist / AHO to lift planting material as per target/ diversion programme.
12. Before transportation of quality planting materials of mango, cashew, litchi, citrus, with poly bags should be shifted from the nursery bed and kept in shade for 7 days for hardening at the production centers.
13. Transportation of Q.P.M may be made during cool hours to avoid the transit shock. A responsible field staff may be assigned to take adequate care at the time of loading and unloading of the quality planting materials under his direct supervision.
14. After unloading of the planting materials at the site proper nourishment of plant should be taken to overcome the transportation shock.
15. The concerned farm in charge should supply the QPM as per the diversion programme. Any shortfall / inferior in quality of planting materials, concerned officers shall be held responsible. The Truck detained / returned due to non-

availability of the planting materials, the expenditure incurred thereof shall be recovered from the farm in charge.

16. The planting materials will be supplied to the beneficiaries on payment of 25% of the cost of the planting material in advance as per cost structure.
17. Planting should be started immediately after the onset of the monsoons and completed by 31st July or extended on order of D.H.O.
18. The beneficiaries should be imparted training before plantation

Scale of Subsidy :

Crop wise and year wise assistance in the ratio of 60:20:20 in 3 years except banana. Details are as follows :

Rate of assistance (Rs. Per ha)

SL. No.	Name of the Crop with plant population per ha.	1st Year (60%)	2 nd year (20%)	3 rd year (20%)	Total
1	Mango (100 plants per ha. with cultivation cost @ Rs.22,000 /- per ha.)	9900	3300	3300	16,500
2	Cashew (200 plants per ha with cost of cultivation @ Rs.40,000 /- per ha.)	12000	4000	4000	20,000
3	Banana sucker (2500 plants per ha. with cultivation @ Rs.45,000/- per ha.)	16875	5625	--	22,500
4	Banana Tissue Culture (3086 plants per ha. with cultivation @ Rs.41,602/- per ha.)	31201.5	10400.5	--	41,602
5	Litchi (178 plants per ha with cost of cultivation @ Rs.29,230/- per ha.)	13154	4384.5	4384.5	21923
6	K. Lime (278 plants per ha with cost of cultivation @ Rs.33,340 /- per ha)	15003	5001	5001	25,005
7	Orange (278 plants per ha with cost of cultivation @ Rs.33,340 /- per ha)	15003	5001	5001	25,005

Details of component wise financial assistance / subsidy in fruit plantation under NHM / Non-NHM is furnished at **Annexure III – XI**.

- 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 to the cost of Display Board as mentioned in the “Component wise subsidy breakup”.
- b. The Cost towards Display Board i.e. Rs.250/- mentioned in the component wise subsidy breakup in the item of Miscellaneous in the Annexure is meant for display board in the farmer’s field and the expenditure made by the Horticulturist.

Example :

In case of Mango Plantation		
a. Total subsidy for 1 st year for 1 ha. (NHM / NON-NHM share)	Rs.9900/-	
b. Cost of the Planting material is Rs.28/- per graft for 100 grafts	Rs.2800/-	i. NHM/NON-NHM share - Rs.2100 ii. Farmers share – Rs.700
c. Balance NHM / NON-NHM share to be paid (Rs.9900.0 – Rs.2100.0)	Rs.7800/-	
d. Provision for display board (incurred by concerned Hort. / AHO)	Rs.250/-	
e. Balance subsidy to be released in 2 installment (50:50) to the beneficiary i.e. (Rs.7800.0 – Rs.250.0)	Rs.7550/-	
	a. 1 st installment to be released during plantation – Rs.3775/- b. 2 nd installment to be released during October – Rs.3775/-	

Release of Subsidy :

19. 25% / 50% of the cost of the planting materials will be borne by the beneficiaries & rest 75% / 50% cost will be met out of NHM / Non-NHM subsidy (as per approved all-in-cost price).
20. The cost of the planting materials, external transportation, mortality, internal transportation, loading & unloading cost will be met out of the above 75% / 50% NHM / Non-NHM share & 25% / 50% of Farmers' share by the concerned field officers.
21. The subsidy (after deducting 75% / 50% cost of the planting materials from 1st yr. subsidy) i.e. 60%, if any, will be disbursed to the beneficiary in shape of **A/c payee cheque** in 2 installments. In 1st installment, 50% of the subsidy will be released to farmer during plantation. Rest 50% will be released 15th October onwards observing the field condition except Miscellaneous (preparation of display board, etc.) component as per cost of cultivation.
22. 20% of the total subsidy for different crops (as per the above Table – 2nd yr.) will be released to the individual beneficiary for 2nd year maintenance of the crop, subject to survival of plant not less than 75% after verification.

23. 20% of the total subsidy for different crops (as per the above Table – 3rd yr.) will be released to the individual beneficiary for 3rd year maintenance of the crop, subject to 90% of survival of plant after verification.
24. 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 2nd yr. & 3rd yr.** and submitted to concerned DDH.
25. Concerned DDH will make 10 % random check in the field within 15th May & submit the list of eligible beneficiaries with no. of plants available, area covered & % of survival to this Directorate for release of subsidy to the concerned Horticulturist/ AHO.
26. The list of eligible beneficiaries with no. of plants available, area covered & % of survival will be placed before the District Mission Committee for approval.
27. Subsidy amount towards maintenance (2nd yr. & 3rd yr.) will be released to the beneficiaries by the concerned Hort/ AHO on the onset of the monsoon.
28. The concerned Horticulturist / JHO should educate the farmers to utilize the fertilizers / P.P. Chemicals in the plantation field out of the subsidy amount released to them. They may enhance the input.
29. The incidental expenditure i.e. external and internal transportation, loading & unloading etc. should be met from the collected Farmers' share, as per the approved cost structure.
30. 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.
31. The subsidized cost of planting materials during 2011-12 are as follows :

a.	Mango	-	7.00	d.	K.Lime seedlings	-	1.87	g.	Banana (Champa)	-	2.50
b.	Cashew	-	13.25	e.	Orange graft	-	6.50	h.	Banana (Bantal)	-	2.52
c.	Litchi gootee	-	4.88	f.	Orange seedling	-	2.00				
i.	Banana (D.C./Robusta)	-	2.50								

Monitoring :

32. Regular visit of the field staff to plantation site shall be ensured by the concerned supervising officials.
33. Fencing/ making of tree guard should be ensured for the plantation site/ individual plant by the beneficiary.
34. Installation of drip pitcher and utilization of mulching materials must be ensured for success of the plantation.
35. 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.
36. 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	Categ-ory of the farmers	Date of plantation	Area covered (Ha)	No. of plants planted	Variety	Source Farm	Qty. of 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 st year	Nos gap filled during 2 nd year	Survival at the end of 2 nd year	Nos gap filled during 3 rd year	Survival at the end of 3 rd year	Remarks
<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>

37. The field staff I/c of plantation for the GP/Block should also maintain a register with above table and additional columns mentioning date of intercultural operations and application of fertilizers etc. given as assistance. The field staff concerned should always carry this register with them 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.
38. A copy of the approved beneficiary list in book form & a soft copy should be submitted to the Director of Horticulture, Orissa, Bhubaneswar after plantation is over for record.
39. The concerned D.D.H should furnish the requirement of funds of his range to the Director of Horticulture, Orissa, Bhubaneswar for the release of fund.

Survivability Certificate

Certified that the mango / cashew / litchi / k.lime / orange / banana plantation taken up by Sri _____ Vill _____,G.P. _____ Dist. _____ during the year _____ under the National Horticulture Mission / Non-Hort. Mission Programme has survivability of _____ % for _____ year . So the beneficiary is eligible / not eligible to avail subsidy for Rs. _____ amount for _____ year (2nd / 3rd). 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.

Component wise subsidy break up of CASHEW during 2011-12

Spacing : 7 m x 7 m

Area-1 Ha

Population - 200 nos.

SI No.	Particulars	1st Year	2nd Year	3rd Year	Total
1	Planting Materials 50% of the cost i.e. Rs.13.25/- graft (inclusive of casualties)	2650			2650
2	Manures (vermi compost / cow dung)	500	300	200	1000
3	Fertilizers / Organic fertilizer / Bio fertilizer	1100	900	900	2900
4	Plant Protection	706	200	200	1106
5	Fencing	1500	300	300	2100
6	Irrigation	1000	500	500	2000
	SUB TOTAL:	7456	2200	2100	11756
	Labour & Operational cost				
1	Land Preparation & Layout	200			200
2	Digging of pits	1200			1200
3	Filling of pits & Planting	600			600
4	Application of fertilizers & pesticides	600	600	600	1800
5	Inter cultivation / Mulching	300	300	400	1000
6	Irrigation	1000	600	600	2200
7	Pruning & training	394	300	300	994
	SUB TOTAL:	4294	1800	1900	7994
8	Miscellaneous (preparation of display board, etc.)	250			250
	Grand Total :	12000	4000	4000	20000

N.B.: Pitcher irrigation must be ensured where water is a constraint.

Component wise subsidy break up of K.LIME during 2011-12

Spacing : 6m x 6m
5x5

Area-1 Ha

Population - 278 nos.

SI No.	Particulars	1st Year	2nd Year	3rd Year	Total
1	Planting Materials 75% of the cost i.e. Rs.5.63/- seedling (inclusive of casualties)	1565.14			1565.14
2	Manures (vermi compost / cow dung)	800	400	400	1600
3	Fertilizers / Organic fertilizer / Bio fertilizer	1332.86	800	800	2932.86
4	Plant Protection	1000	300	300	1600
5	Fencing	2000	601	601	3202
6	Irrigation	1500	1000	1000	3500
	SUB TOTAL:	8198	3101	3101	14400
	<i>Labour & Operational cost</i>				
1	Land Preparation & Layout	300			300
2	Digging of pits	2000			2000
3	Filling of pits & Planting	1000			1000
4	Application of fertilizers & pesticides	1000	600	600	2200
5	Inter cultivation / Mulching	500	300	300	1100
6	Irrigation	1400	800	800	3000
7	Pruning & training	355	200	200	755
	SUB TOTAL:	6555	1900	1900	10355
8	Miscellaneous (preparation of display board, etc.)	250			250
	Grand Total :	15003	5001	5001	25005

N.B.: Pitcher irrigation must be ensured where water is a constraint.

Component wise subsidy break up of ORANGE (graft) during 2011-12

Spacing : 6m x 6m

Area-1 Ha

Population - 278 nos.

SI No.	Particulars	1st Year	2nd Year	3rd Year	Total
1	Planting Materials 75% of the cost i.e. Rs.19.50/- seedling (inclusive of casualties)	5421			5421
2	Manures (vermi compost / cow dung)	500	400	400	1300
3	Fertilizers / Organic fertilizer / Bio fertilizer	800	800	800	2400
4	Plant Protection	800	300	300	1400
5	Fencing	1000	601	601	2202
6	Irrigation	1000	1000	1000	3000
	SUB TOTAL:	9521	3101	3101	15723
	<i>Labour & Operational cost</i>				
1	Land Preparation & Layout	300			300
2	Digging of pits	1800			1800
3	Filling of pits & Planting	700			700
4	Application of fertilizers & pesticides	700	600	600	1900
5	Inter cultivation / Mulching	500	300	300	1100
6	Irrigation	1000	800	800	2600
7	Pruning & training	232	200	200	632
	SUB TOTAL:	5232	1900	1900	9032
8	Miscellaneous (preparation of display board, etc.)	250			250
	Grand Total :	15003	5001	5001	25005

N.B.: Pitcher irrigation must be ensured where water is a constraint.

Component wise subsidy break up of ORANGE (budded) during 2011-12

Spacing : 6m x 6m

Area-1 Ha

Population - 278 nos.

SI No.	Particulars	1st Year	2nd Year	3rd Year	Total
1	Planting Materials 75% of the cost i.e. Rs.16.05/- seedling (inclusive of casualties)	4461.9			4461.9
2	Manures (vermi compost / cow dung)	600	400	400	1400
3	Fertilizers / Organic fertilizer / Bio fertilizer	1000	800	800	2600
4	Plant Protection	800	300	300	1400
5	Fencing	1500	601	601	2702
6	Irrigation	1100	1000	1000	3100
	SUB TOTAL:	9461.9	3101	3101	15663.9
	<i>Labour & Operational cost</i>				
1	Land Preparation & Layout	300			300
2	Digging of pits	1800			1800
3	Filling of pits & Planting	700			700
4	Application of fertilizers & pesticides	700	600	600	1900
5	Inter cultivation / Mulching	500	300	300	1100
6	Irrigation	1000	800	800	2600
7	Pruning & training	291.1	200	200	691.1
	SUB TOTAL:	5291.1	1900	1900	9091.1
8	Miscellaneous (preparation of display board, etc.)	250			250
	Grand Total :	15003	5001	5001	25005

N.B.: Pitcher irrigation must be ensured where water is a constraint.

Component wise subsidy break up of ORANGE seedling during 2011-12

Spacing : 6m x 6m

Area-1 Ha

Population - 278 nos.

SI No.	Particulars	1st Year	2nd Year	3rd Year	Total
1	Planting Materials 75% of the cost i.e. Rs.6.00/- seedling (inclusive of casualties)	1668			1668
2	Manures (vermi compost / cow dung)	800	400	400	1600
3	Fertilizers / Organic fertilizer / Bio fertilizer	1500	800	800	3100
4	Plant Protection	1000	300	300	1600
5	Fencing	2000	601	601	3202
6	Irrigation	1500	1000	1000	3500
	SUB TOTAL:	8468	3101	3101	14670
	Labour & Operational cost				
1	Land Preparation & Layout	300			300
2	Digging of pits	1900			1900
3	Filling of pits & Planting	1000			1000
4	Application of fertilizers & pesticides	1000	600	600	2200
5	Inter cultivation / Mulching	500	300	300	1100
6	Irrigation	1300	800	800	2900
7	Pruning & training	285	200	200	685
	SUB TOTAL:	6285	1900	1900	10085
8	Miscellaneous (preparation of display board, etc.)	250			250
	Grand Total :	15003	5001	5001	25005

N.B.: Pitcher irrigation must be ensured where water is a constraint.

Component wise subsidy break up of LITCHI during 2011-12

Spacing : 7.5 m x 7.5 m

Area-1 Ha

Population - 178 nos.

SI No.	Particulars	1st Year	2nd Year	3rd Year	Total
1	Planting Materials 75% of the cost i.e. Rs.14.62/- gootee (inclusive of casualties)	2602.36			2602.36
2	Manures (vermi compost / cow dung)	500	200	200	900
3	Fertilizers / Organic fertilizer / Bio fertilizer	1000	600	600	2200
4	Plant Protection	800	300	300	1400
5	Fencing	1300	500	500	2300
6	Irrigation	1300	850	850	3000
	SUB TOTAL:	7502.36	2450	2450	12402.36
	<i>Labour & Operational cost</i>				
1	Land Preparation & Layout	200			200
2	Digging of pits	2000			2000
3	Filling of pits & Planting	700			700
4	Application of fertilizers & pesticides	700	600	600	1900
5	Inter cultivation / Mulching	300	300	300	900
6	Irrigation	1200	800	800	2800
7	Pruning & training	301.64	234.5	234.5	770.64
	SUB TOTAL:	5401.64	1934.5	1934.5	9270.64
8	Miscellaneous (preparation of display board, etc.)	250			250.00
	Grand Total :	13154	4384.5	4384.5	21923.00

N.B.: Pitcher irrigation must be ensured where water is a constraint.

**Component wise Subsidy Break up of Banana sucker (Bantal)
during 2011-12**

Spacing : 2 m x 2 m

Area-1 Ha

Population - 2500 nos.

SI No.	Particulars	1st Year	2nd Year	Total
1	Planting Materials 50% of cost i.e. Rs.2.53 per sucker (Inclusive of casualities)	6325		6325
2	Manures (vermi compost / cow dung)	800	600	1400
3	Fertilizers / Organic fertilizer / Bio fertilizer	2300	900	3200
4	Plant Protection	600	500	1100
5	Fencing	1000		1000
6	Irrigation	1000	1000	2000
	SUB TOTAL:	12025	3000	15025
	Labour & Operational cost			
1	Land Preparation & Layout			
2	Digging of pits	800		800
3	Filling of pits & Planting	800		800
4	Application of fertilizers & pesticides	1200	800	2000
5	Inter cultivation / Mulching	500	725	1225
6	Irrigation	1000	800	1800
7	Pruning & training	300	300	600
	SUB TOTAL:	4600	2625	7225
8	Miscellaneous (preparation of display board, etc.	250		250
	Grand Total:	16875	5625	22500

**Component wise Subsidy Break up of Banana sucker (D.C. / Robusta)
during 2011-12**

Spacing : 2 m x 2 m

Area-1 Ha

Population - 2500 nos.

Sl No.	Particulars	1st Year	2nd Year	Total
1	Planting Materials 50% of cost i.e. Rs.2.50 per sucker (Inclusive of casualities)	6250		6250
2	Manures (vermi compost / cow dung)	700	600	1300
3	Fertilizers / Organic fertilizer / Bio fertilizer	1500	900	2400
4	Plant Protection	700	500	1200
5	Fencing	1200		1200
6	Irrigation	1000	1000	2000
	SUB TOTAL:	11350	3000	14350
	Labour & Operational cost			
1	Land Preparation & Layout			
2	Digging of pits	1100		1100
3	Filling of pits & Planting	800		800
4	Application of fertilizers & pesticides	1100	800	1900
5	Inter cultivation / Mulching	600	725	1325
6	Irrigation	1300	800	2100
7	Pruning & training	375	300	675
	SUB TOTAL:	5275	2625	7900
8	Miscellaneous (preparation of display board, etc.	250		250
	Grand Total:	16875	5625	22500

Component wise Subsidy Break up of Banana sucker (D.C. / Robusta / Champa) during 2011-12

Spacing : 2 m x 2 m

Area-1 Ha

Population - 2500 nos.

SI No.	Particulars	1st Year	2nd Year	Total
1	Planting Materials 50% of cost i.e. Rs.2.50 per sucker (Inclusive of casualities)	6250		6250
2	Manures (vermi compost / cow dung)	700	600	1300
3	Fertilizers / Organic fertilizer / Bio fertilizer	1500	900	2400
4	Plant Protection	700	500	1200
5	Fencing	1200		1200
6	Irrigation	1000	1000	2000
	SUB TOTAL:	11350	3000	14350
	Labour & Operational cost			
1	Land Preparation & Layout			
2	Digging of pits	1100		1100
3	Filling of pits & Planting	800		800
4	Application of fertilizers & pesticides	1100	800	1900
5	Inter cultivation / Mulching	600	725	1325
6	Irrigation	1300	800	2100
7	Pruning & training	375	300	675
	SUB TOTAL:	5275	2625	7900
8	Miscellaneous (preparation of display board, etc.	250		250
	Grand Total:	16875	5625	22500