

**Detailed Cost Norms for the Creation of Nurseries and Plantations**  
**(Based on daily Rate of Wages fixed by Labour Department Rs. 70/-)**

**Part-I – NURSERIES (ONE BED)**

1.1 **Permanent Nursery**

1.1 (a) **Polypot Nursery**

(i) **Norm in the First Year**

Sl. No.	Items of works	Unified norms		Remarks
		Man-days	Amount	
1.	2	3	4	5
1.	Preparation of standard-sized beds (13m x 1.3x 0.30m) for placing the polythene bags.	1.5	Rs. 105.00	<u>NOTE</u> Sl. Nos. 1, 2, 3, 4, 5 & 6 are <u>Preliminary works.</u>
2.	Cost of polythene bags (22.5cm x 15mm) in the one bed 4 kgs are required.	7.2	Rs. 504.00	
3.	Cost of filling up of manure-mixed earth in polybags including pounding after filling.	9	Rs. 630.00	
4.	Cost of cowdung including transportation	0.6	Rs. 42.00	
5.	Cost of seeds	1.5.	Rs. 105.00	
6.	Cost of Goat proof fencing net including cost of wooden fencing posts, erecting fixing fitting etc. complete & including cost of staples.	1	Rs. 70.00	

7	Cost of sowing including hoeing, mulching etc.	1	Rs. 70.00	Sl.Nos 7,8,9,10,11 & 12 are creation and maintenance in the first year.
8.	Cost of pricking and transplanting of seedlings from germination beds to polybags.	2	Rs. 140.00	
9.	Cost of construction of shades for protection of seedlings from frost during winter and direct sunlight in warm areas.			
	(a) Cost of materials	1	Rs. 70.00	
	(b) Labour cost	2	Rs. 140.00	
10.	Cost of weeding 4 weeding @ 32.50/ p.w.	2.6	Rs. 182.00	
11.	Cost of watering	1	Rs. 70.00	
12.	Miscellaneous cost e.g. Fungicides tools & plants, making of inspection path, fertilizers, chemicals, lime pesticides/insecticides, growth hormones, etc.	0.2.	Rs. 14.00	
<b>Total in the First Year</b>		<b>30.6</b>	<b>Rs. 2,142.00</b>	

(ii) **Maintenance during the Second Year.**

1.	Weeding – 3 times @32.50/p.w	1.9	Rs. 133.00
2.	Watering	0.5.	Rs. 35.00
<b>Total in the Second Year</b>		<b>2.4</b>	<b>Rs. 168.00</b>

## 1.1 (b) Naked Root Nursery

## (i) Norms during the First Year

Sl. No.	Items of works	Unified Norms		Remarks
		Man-days	Amount	
1.	2	3	4	5
1.	Preparation of standard sized beds (13m x 1.3m x 0.03m)	1.5	Rs. 105.00	<u>NOTE</u>  Same as 1.1 (a)
2.	Collection of seeds	2	Rs. 140.00	
3.	Fencing all around the nursery site with goat proof fencing net & wooden posts including erecting, fixing, fitting etc. complete.	1	Rs. 70.00	
4.	Cost of cowdung including transportation up to site	0.6	Rs. 42.00	
5.	Seed treatment	0.3.	Rs. 21.00	
6.	Sowing of seeds including hoeing	0.1.	Rs. 7.00	
7.	Weeding of nursery beds, 4 weeding @ 32.50/p.w.	2.6.	Rs. 182.00	
8.	Construction of shades with bamboo structure and thatch for protection from frost in winter and effect of sub in warm areas  (a) Cost of materials  (b) Labour cost.	1	Rs. 70.00	
		2	Rs. 140.00	
9.	Watering of nursery beds	1	Rs. 70.00	
10.	Miscellaneous cost e.g. cost of tools/ and plants fertilizers, insecticides/ pesticides, growth hormones, making of inspection path etc.	0.2.	Rs. 14.00	
<b>Total in The First Year</b>		<b>12.30</b>	<b>Rs. 861.00</b>	

(ii) **Maintenance During the Second Year.**

1.	Weeding (3 weeding only) @32.50/ p.w	1.9	Rs. 133.00	
2.	Watering of nursery beds	0.5.	Rs. 35.00	
<b>Total in The Second Year</b>		<b>2.4</b>	<b>Rs. 168.00</b>	

**NOTE :-** Arrangement for permanent water supply, sprinkles, purchase and installation of equipments, construction of quarters for the staff, wages for watch – and - ward staff, root trainers, mist chambers, green houses, cost of diesel/electric bill for running the pump sets etc. would be based on detailed estimates.

1.2 **TEMPORARY NURSERY**1.2 (a) **Polypot Nursery**(i) **Norm in the First Year**

Sl. No.	Items of works	Unified norms		Remarks
		Mandays	Amount	
1.	2	3	4	5
1.	Preparation of standard-sized bed	1.5	Rs. 105.00	
2.	Cost of H.D. polythene bags (22.5cm x 15mm – 150 gauge)	7.2	Rs. 504.00	
3.	Cost of manure-mixed earth in polybags including pounding after filling.	9	Rs. 630.00	
4.	Cost of cowdung including transportation	0.6	Rs. 42.00	
5.	Cost of seeds	1.4	Rs. 98.00	

6.	Cost of goat proof fencing wire net including cost of collection of wooden fencing posts, erecting fixing fitting etc. complete and including coat of staples.	1	Rs. 70.00	NOTE Same as 1.1 (a)
7.	Cost of sewing including hoeing, mulching etc.	1	Rs. 70.00	
8.	Cost of pricking and transplanting of seedlings from germination beds to polybags.	2	Rs. 140.00	
9.	Cost of construction of shades for protection of seedlings from frost during winter and direct sunlight in warm areas.			
	(a) Cost of materials	1	Rs. 70.00	
	(b) Labour cost	2	Rs. 140.00	
10.	Cost of weeding 4 weeding @ 32.50/ p.w.	2.6	Rs. 182.00	
11.	Cost of watering	1	Rs. 70.00	
12.	Misc. cost e.g. fungicides tools & plants inspection paths, fertilizers, chemicals, lime pesticides growth hormones, etc.	0.2.	Rs. 14.00	
<b>Total in the First Year</b>		<b>30.5</b>	<b>Rs. 2,135.00</b>	

(ii) **Maintenance in the Second Year.**

1.	Weeding – 2 weeding only are necessary @32.50/p.h/P.W.	1.5.	Rs. 105.00
2.	Watering	0.3.	Rs. 21.00

<b>Total in the Second Year</b>	<b>1.8</b>	<b>Rs. 126.00</b>
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## 1.2 Naked Root Nursery

### (1) Norms in the First Year

Sl. No.	Items of works	Unified norms		Remarks
		Mandays	Amount	
1.	2	3	4	5
1.	Preparation of standard sized beds	1.5	Rs. 105.00	<b>NOTE</b> Same as 1.1 (a)
2.	Collection of seeds	2	Rs. 140.00	
3.	Fencing all around the nursery site with goat proof fencing net & wooden posts including erecting, fixing, fitting etc. complete.	1	Rs. 70.00	
4.	Cost of cowdung including transportation up to site	0.6	Rs. 42.00	
5.	Seed treatment	0.3.	Rs. 21.00	
6.	Sowing of seeds including hoeing		Rs. 7.00	
7.	Weeding of nursery beds, 4 weeding @ 32.50/p.w.	2.6.	Rs. 182.00	
8.	Construction of shades with bamboo structure and thatch			
	(a) Cost of materials	1	Rs. 70.00	
	(b) Labour cost.	2	Rs. 140.00	
9.	Watering of nursery beds	1	Rs. 70.00	

10.	Miscellaneous cost e.g. cost of tools/ and plants fertilizers, insecticides/ pesticides, growth hormones, making of inspection path etc.	0.2	Rs. 14.00
<b>Total in the Second Year</b>		<b>12.2</b>	<b>Rs. 861.00</b>

**(ii) Maintenance in the Second Year.**

1.	Weeding – (2 weeding only) @45..50/P.W.	1.3	Rs. 91.00
2.	Watering	0.3	Rs. 21.00
<b>Total in the Second Year</b>		<b>1.6</b>	<b>Rs. 112.00</b>

**ABSTRACT****Permanent Nursery**

<b>Year</b>	<b>Polypot Nursery</b>	<b>Naked Root</b>
First Year	Rs. 2,142.00	Rs. 861.00
Second Year	Rs. 168.00	Rs. 168.00
<b>Total</b>	<b>Rs. 2,310.00</b>	<b>Rs.1,029.00</b>

**Temporary Nursery**

<b>Year</b>	<b>Polypot Nursery</b>	<b>Naked Root</b>
First Year	Rs. 2,135.00	Rs. 861.00
Second Year	Rs. 126.00	Rs. 112.00
<b>Total</b>	<b>Rs. 2,261.00</b>	<b>Rs. 973.00</b>

**PART-II: CREATION OF PLANTATIONS IN RESERVED FOREST, PROTECTED FOREST AND OTHER AFFORESTED AREAS (ONE HECTARE)****Preliminary Works**

Sl. No.	Items of works	Unified norms		Remarks
		Mandays	Amount	
1.	2	3	4	5
1.	Survey and demarcation including fixing of boundary marks at strategic points.	2	Rs. 140.00	
2.	Jungle clearance, burning, land preparation including staking, pit digging, hoeing etc.	24	Rs. 1,680.00	
3.	(i) Construction of camp huts (ii) Construction of inspection path (iii) Procurement of tools and plants	8 3 3	Rs.560.00 Rs. 210.00 Rs. 210.00	
4.	Cost of collection of seeds ( in case of plantation created through seed origin. If the plantation is to be created by nursery seedlings this item shall be excluded)	5	Rs.350.00	
<b>Total in the Preliminary Year</b>		<b>45</b>	<b>Rs.3,150.00</b>	

**Creation – (First Year of Plantation)**

1.	Sowing of seeds including hoeing of soil and covering of seeds	6	Rs.420.00	
	Planting of nursery seedlings including carriage from nursery centres to plantation sites and proper ramming after planting etc. complete (for plantation raised by nursery seedlings only)	16	Rs. 1,120.00	
2.	Weeding 3 weedings are essentials in	15	Rs.3,150.00	



	the first year @1050/- p.w.		(15x3) =45	
3.	Fire protection during dry and windy season.  Wages of fire watchers from November of the creation year to April of the following year.  Fire line clearance including controlled burning from November in the creation year to April of the following year.	7  7	Rs.490.00  Rs.490.00	
4.	Cost of seeds including carriage charge	0	Nil	
<b>Total in the first year</b>		<b>51</b>	<b>Rs.4,550.00*</b> <b>Rs.5,250.00**</b>	

\*: By direct Seed Sowing

\*\*: By planting of the Seedlings

### Second Year of Plantation

1.	2 (two) weeding @1050/- p.w.	15	Rs.2,100.00  (15x2)=30	
2.	Fire Protection  (i) Wages of fire watchers.  (ii) Fire line clearance including controlled burning.	7  7	Rs. 490.00  Rs. 490.00	
3.	Vacancy filling in mortality areas	4	Rs.280.00	
<b>Total in Second Year</b>		<b>33</b>	<b>Rs.3,360.00</b>	

### Third Year of Plantation

1.	2 (two) weeding @1050/- p.w.	15	Rs.2,100.00  (15x2)=30	
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2.	Fire Protection		
	(i) Wages of fire watchers.	7	Rs. 490
	(ii) Fire line clearance including controlled burning.	7	Rs. 490
3.	Vacancy filling	4	Rs.280.00
<b>Total in third year</b>		<b>33</b>	<b>Rs. 3,360.00</b>

#### Fourth Year of Plantation

1.	Fire Protection		
	(i) Wages of fire watchers.	7	Rs.490.00
	(ii) Fire line clearance including controlled burning.	7	Rs.490.00
<b>Total in Fourth Year</b>		<b>14</b>	<b>Rs.980.00</b>

#### Fifth Year of Plantation

1.	(i) Wages of fire watchers.	7	Rs.490.00
	(ii) Fire line clearance including controlled burning.	7	Rs.490.00
2.	Cost of singling out operation to provide proper spacing from one plant to another.	6	Rs.420.00
<b>Total in fifth year</b>		<b>20</b>	<b>Rs.1,400.00</b>

#### ABSTRACT

Year	Unified Norms.
Preliminary year	Rs. 3,150.00
First Year	(i) Rs. 4,500.00 ( by direct sowing) (ii) Rs. 5,250.00 ( by planting)

Second Year	Rs. 3,360.00
Third Year	Rs. 3,360.00
Fourth Year	Rs. 980.00
Fifth Year	Rs. 1,400.00
<b>TOTAL</b>	(i) <b>Rs.16,800.00 (By Direct Sowing)</b> (ii) <b>Rs.17,500.00 (By Planting)</b>

**PART –III- UNIFIED NORMS FOR THE CREATION OF PLANTATION OUTSIDE  
RESERVED FOREST AND PROTECTED FOREST (ONE HECTARE)**

**Preliminary Works**

Sl. No.	Items of works	Unified Norms		Remarks
		Man-days	Amount	
1.	2	3	4	5
1.	Survey and demarcation including fixing of boundary marks at strategic points.	2	Rs. 140.00	
2.	Jungle clearance, burning, land preparation including hoeing, staking, pit digging, hoeing etc.	24	Rs. 1,680.00	
3.	Fencing			
	(a) With 3 strand barbed wire and wooden fencing posts including cost of staples, fixing, fitting etc. complete	64	Rs. 4,480.00	
	(b) With peripheral earthen bunds along with live hedges and local fencing e.g. bamboos, timber, etc.	50	Rs. 3,500.00	
4.	Collection of seeds (pine and other species)	5	Rs. 350.00	
5.	Construction of camp but and inspection paths	4	Rs. 280.00	

6.	Purchase of tools and plants		Rs. 150.00	
7.	Supervisory staff to be engaged on casual basis from amongst the local people	12	Rs. 840.00	
<b>Total Cost in the Preliminary Year</b>		<b>161</b>	<b>Rs. 7,920.00*</b>	
			<b>Rs. 6,940.00**</b>	

\*: With barbed wire fencing

\*\*: With peripheral bund fencing

**Note:**

1. Cost norms for barbed wire fencing shall be allowed to increase in case of hike in the Government approved rates for barbed wire as notified by the Industries Department, Government of Meghalaya from time to time.
2. Base-cost norm for fencing @Rs. 3,200/- per hectare is based on the Government approved rates of barbed wire effective on 1.1.2000 i.e Rs. 3,550/- approximately.

**First Year of Plantation**

Sl. No.	Items of works	Unified norms		Remarks
		Man-days	Amount	
1.	2	3	4	5
1.	Creation of plantation			
	(i) Sowing of seeds including having of soil and covering of seeds.	6	Rs. 420.00	
	(ii) Planting of nursery seedlings including carriage from nursery centres to plantation sites and proper ramming after planting	16	Rs. 1,120.00	
2.	Weedings 3 weedings @1050 /- p.w p.h.	15	Rs. 3,150.00 (15x3)=45	
3.	Fire protection during dry and windy			

	season			
	(i) Wages of fire watchers from November of the creation year to April of the following year	10	Rs. 700.00	
	(ii) Fire line clearance internal and external fireline including controlled burning	10	Rs. 700.00	
4.	Miscellaneous cost	-	-	
<b>Total Cost in the First Year</b>		<b>57</b>	<b>Rs. 4,970.00*</b> <b>Rs. 5,670.00**</b>	

\*.: By Direct Seed Sowing

\*\*.: By Planting of Seedlings

### Second Year of Plantation

Sl.No.	Items of works	Unified Norms		Remarks
		Mandays	Amount	
1.	2	3	4	5
1.	Vacancy filling in mortality areas	4	Rs. 280.00	
2.	Three weedings @1050/-p.w.	15	Rs. 3,150.00 (15x3)=45	
3.	Fire Protection			
	(i) Wages of fire watchers	10	Rs. 700.00	
	(ii) Fireline clearance including controlled burning	10	Rs. 700.00	
4.	Miscellaneous cost e.g. repair of fencing etc.	-	-	
<b>Total Cost in the Second Year</b>		<b>39</b>	<b>Rs. 4,830.00</b>	

### Third Year of Plantation

Sl.No.	Items of works	Unified norms		Remarks
		Mandays	Amount	
1.	2	3	4	5
1.	Vacancy filling whenever necessary	4	Rs. 280.00	
2.	Two weedings @1050/-p.w./p.h	15	Rs. 2,100.00 (15x2)=30	
3.	Fire Protection			
	(i) Wages of fire watchers	10	Rs. 700.00	
	(ii) Fireline clearance controlled burning	10	Rs. 700.00	
4.	Miscellaneous cost e.g. repair of fencing and maintenance of inspection path etc.	4	Rs. 280.00	
<b>Total Cost in the Third Year</b>		<b>4</b>	<b>Rs.4,060.00</b>	

#### Fourth Year of Plantation

Sl. No.	Items of works	Unified norms		Remarks
		Mandays	Amount	
1.	2	3	4	5
1.	One weeding (only in non-pine plantation where there is heave growth of weeds/jungles.	15	Rs. 1,050.00	
2.	Fire Protection			
	Wages of fire watchers	10	Rs. 700.00	
	Fireline clearance	10	Rs. 700.00	
3.	Miscellaneous cost	-	-	
<b>Total Cost in the Fourth Year</b>		<b>35</b>	<b>Rs.2,450.00</b>	

#### Fifth Year of Plantation

Sl.No.	Items of works	Unified norms		Remarks
		Mandays	Amount	
1.	2	3	4	5
1.	One weeding (last weeding before the plants get established ) <u>only in non-pine plantation</u>	15	Rs. 1,050.00	
2.	Fire Protection (i) Wages of fire watchers (ii) Fireline clearance and controlled burning	10 10	Rs. 700.00 Rs. 700.00	
3.	Cost of singling out operation (silviculture cleaning or decongesting of plantation for providing appropriate spacing from plant to plant	6	Rs. 420.00	
4.	Miscellaneous expenditure e.g. salvaging of fencing materials from the plantation centre wherever fencing is no longer necessary	3	Rs. 210.00	
<b>Total Cost in the Fifth year</b>		<b>44</b>	<b>Rs.3,080.00</b>	

**ABSTRACT**

<b>Year</b>	<b>Unified Norms.</b>
Preliminary year	(i) Rs. 7,920.00 (With barbed Wire fencing) (ii) Rs. 6970.00 (with peripheral bund fencing)
First Year	(i) Rs. 4,970.00 ( by direct sowing) (ii) Rs. 5,670.00 ( by planting)
Second Year	Rs. 4,830.00
Third Year	Rs. 4,060.00
Fourth Year	Rs. 2,450.00
Fifth Year	Rs. 3,080.00
<b>TOTAL</b>	(i) <b>Rs. 27,310.00 (By direct seed sowing &amp; barbed wire fencing)</b> (ii) <b>Rs. 28,010.00 (By planting &amp; barbed wire fencing)</b> (iii) <b>Rs.26,360.00 (By direct seed sowing &amp; earthen bund fencing)</b> (iv) <b>Rs.27,060.00 (By Planting &amp; Barbed Wire fencing)</b>