

**DETAILS ESTIMATE OF EXPENDITURE FOR RAISING COMPENSATORY AFFORESTATION  
FOR THE FOREST LAND DIVERTED FOR CONSTRUCTION OF ALTERNATE ROAD TO  
SHILLONG VIEW POINT (AS PER NORMS) NOTIFIED VIDE NO. FOR.85/86/194 DATED 25<sup>th</sup>  
JULY 2005 @ 184.00 / man days VIDE GOVT. ORDER.NOLBG75/2012/259, Dt,31/01/2017**

1:2. TEMPORARY NURSERY :

1:2 (a) POLYPOT NURSERY

(i) NORMS IN THE FIRST YEAR

**'A'** ( No. (s) OF BED (s) TO BE RAISED = 2 (TWO) NOS. STANDARD NURSERY BED.

Unified Norms				
SI	Items of works	Man days	Rate P/bed	Amount
1	2	3	4	5
1	Preparation of standard size Nursery Bed	1.5	276	552
2	Cost of H.S Polythene bags (22.5cm x 15 cm – 150 gauge).	7.2	1324.8	2649.6
3	Cost of manure mixed with earth in polybag including pounding after filling	9	1656	3312
4	Cost of cow dung including transportation	0.6	110.4	220.8
5	Cost of seeds.	1.4	257.6	515.2
6	Cost of coat proof fencing wise net including cost of collection of wooden	1	184	368
7	Cost of sowing including hoeing.	1	184	368
8	Cost of pricking and transplanting of seedlings from germination beds to	2	368	736
9	Cost of construction of shades for protection of seedling from frost during winter and direct sunlight in warm areas.			
	(a) Cost of materials	1	184	368
	(b) Labour cost.	2	368	368
10	Cost of weeding 4 (four) weeding.	2.6	478.4	956.80
11	Cost of watering.	1	184	368.00
12	Misc. cost e.g., fungicides, tools & plants, inspection path fertilizers, chemicals, lime pesticides, growth hormones, etc.	0.2	36.8	73.6
	<b>'A' TOTAL IN THE FIRST YEAR</b>	<b>30.5</b>	<b>5612</b>	<b>11224</b>

<b>'B'</b> (ii) MAINTENANCE IN THE SECOND YEAR				
		Mandays / ha	Rate per bed	Amount
SI no	Items of works			
1	Weeding (3 weeding only ) are necessary.	1.3	239.2	239.2
2	Watering.	0.3	55.2	55.2
	<b>'B' TOTAL IN THE SECOND YEAR.</b>	<b>1.6</b>	<b>294.4</b>	<b>294.4</b>

<b>'C'</b> PRELIMINARY WORK FOR 0.81 HA.				
		Mandays / ha	Rate per bed	Cost for 0.81 ha
SI no	Items of works			
1	Survey and demarcation including fixing of boundary marks at strategic points.	2	368	298.08
2	Jungle clearance, burning and preparation including stacking pit digging, hoeing etc.	24	4416	3576.96
3	(i)Construction of camp hut and inspection paths	8	1472	1192.32
	(ii) Construction of inspection path.	3	552	447.12
	(iii) Procurement of tools and plants.	3	552	447.12
	<b>'C' TOTAL IN THE PRELIMINARY</b>	<b>40</b>	<b>7360</b>	<b>5961.6</b>

<b>D'</b> CREATION – ( FIRST YEAR OF PLANTATION)				
SI no	Items of works	Mandays / ha	Rate per bed	Cost for 0.81 ha
1	Planting of Nursery seedlings including carriage from Nursery Centre to plantation sites and proper ramming after planting etc.	16	2944	2384.64
2	Weeding – 3 weeding @ Rs 1500/- per weeding per hac	45	8280	6706.8
3	Fire protection during dry and windy seasons	7	1288	1043.28
	(i) Wages of fire-watchers from November of the creation year to April of the following year.			
	(ii) Fire line clearance internal and external fire line including controlled burning.	7	1288	1043.28
	<b>'D' TOTAL IN THE FIRST YEAR</b>	<b>75</b>	<b>13800</b>	<b>11178</b>
	<b>Add 10% escalation</b>			<b>1117.8</b>
				<b>12295.8</b>




E'	SECOND YEAR OF PLANTATION			
Sl no	Items of works	Mandays / ha	Rate per bed	Cost for 0.81 ha
1	2 (Two) weedings @ 1500/ p.w.	30	5520	4471.2
2	Fire Protection	7	1288	1043.28
	(i) Wages of fire watchers.			
	(ii) Fire line clearance including controlled burning.	7	1288	1043.28
3	Vacancy filling in mortality area	4	736	596.16
	<b>'E' TOTAL IN THE SECOND YEAR OF PLANTATION.</b>	<b>48</b>	<b>8832</b>	<b>7153.92</b>
	<b>Add 20% escalation</b>			<b>1430.784</b>
				<b>8584.704</b>
F	THIRD YEAR OF PLANTATION			
Sl no	Items of works	Mandays / ha	Rate per bed	Cost for 0.81 ha
1	2 (Two) weedings @ 1500/ p.w.	30	5520	4471.2
2	Fire Protection	7	1288	1043.28
	(i) Wages of fire watchers.			
	(ii) Fire line clearance including controlled burning.	7	1288	1043.28
3	Vacancy filling in mortality area	4	736	596.16
	<b>TOTAL IN THE THIRD YEAR OF PLANTATION.</b>	<b>48</b>	<b>8832</b>	<b>7153.92</b>
	<b>Add 30% escalation</b>			<b>2146.176</b>
				<b>9300.096</b>
G	FOURTH YEAR OF PLANTATION			
Sl no	Items of works	Mandays / ha	Rate per bed	Cost for 0.81 ha
1	Fire Protection	7	1288	1043.28
	(i) Wages of fire watchers.			
	(ii) Fire line clearance.	7	1288	1043.28
	<b>TOTAL IN THE FOURTH YEAR OF PLANTATION.</b>	<b>14</b>	<b>2576</b>	<b>2086.56</b>
	<b>Add 40% escalation</b>			<b>834.624</b>
				<b>2921.184</b>

H	FIFTH YEAR OF PLANTATION			
SI no	Items of works	Mandays / ha	Rate per bed	Cost for 0.81 ha
1	Fire Protection	7	1288	1043.28
	(i) Wages of fire watchers.			
	(ii) Fire line clearance including controlled burning.	7	1288	1043.28
2	Cost of singling out operation to provide proper spacing from one plant to another	6	1104	894.24
	<b>TOTAL IN THE FIFTH YEAR OF PLANTATION.</b>	<b>20</b>	<b>3680</b>	<b>2980.8</b>
	<b>Add 50% escalation</b>			<b>1490.4</b>
				<b>4471.2</b>
I	SIXTH YEAR OF PLANTATION			
SI no	Items of works	Mandays / ha	Rate per bed	Cost for 0.81 ha
1	Fire Protection	7	1288	1043.28
	(i) Wages of fire watchers.			
	(ii) Fire line clearance including controlled burning.	7	1288	1043.28
	<b>TOTAL IN THE SIXTH YEAR OF PLANTATION.</b>	<b>14</b>	<b>2576</b>	<b>2086.56</b>
	<b>Add 60% escalation</b>			<b>1251.936</b>
				<b>3338.496</b>
J	SEVENTH YEAR OF PLANTATION			
SI no	Items of works	Mandays / ha	Rate per bed	Cost for 0.81 ha
1	Fire Protection	7	1288	1043.28
	(i) Wages of fire watchers.			
	(ii) Fire line clearance including controlled burning.	7	1288	1043.28
	<b>TOTAL IN THE SEVENTH YEAR OF PLANTATION.</b>	<b>14</b>	<b>2576</b>	<b>2086.56</b>
	<b>Add 70% escalation</b>			<b>1460.592</b>
				<b>3547.152</b>



K	<b>EIGHTH YEAR OF PLANTATION</b>			
Sl no	Items of works	Mandays / ha	Rate per bed	Cost for 0.81 ha
1	Fire Protection	7	1288	1043.28
	(i) Wages of fire watchers.			
	(ii) Fire line clearance including controlled burning.	7	1288	1043.28
	<b>TOTAL IN THE EIGHTH YEAR OF PLANTATION.</b>	<b>14</b>	<b>2576</b>	<b>2086.56</b>
	<b>Add 80% escalation</b>			<b>1669.248</b>
				<b>3755.808</b>
L	<b>NINTH YEAR OF PLANTATION</b>			
Sl no	Items of works	Mandays / ha	Rate per bed	Cost for 0.81 ha
1	Fire Protection	7	1288	1043.28
	(i) Wages of fire watchers.			
	(ii) Fire line clearance including controlled burning.	7	1288	1043.28
	<b>TOTAL IN THE NINTH YEAR OF PLANTATION.</b>	<b>14</b>	<b>2576</b>	<b>2086.56</b>
	<b>Add 90% escalation</b>			<b>1877.904</b>
				<b>3964.464</b>
M	<b>TENTH YEAR OF PLANTATION</b>			
Sl no	Items of works	Mandays / ha	Rate per bed	Cost for 0.81 ha
1	Fire Protection	7	1288	1043.28
	(i) Wages of fire watchers.			
	(ii) Fire line clearance including controlled burning.	7	1288	1043.28
	<b>TOTAL IN THE TENTH YEAR OF PLANTATION.</b>	<b>14</b>	<b>2576</b>	<b>2086.56</b>
	<b>Add 100% escalation</b>			<b>2086.56</b>
				<b>4173.12</b>
<b>TOTAL OF A+B+C+D+E+F+G+H + I + J +K+L+M =</b>				<b>73832.024</b>
<b>GRAND TOTAL=</b>				<b>73832.024</b>

  
 Divisional Forest Officer,  
 Khasi Hills (T) Division,  
 Shillong

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