

ESTIMATE FOR RAISING COMPENSATORY AFFORESTATION PLANTATION UNDER HAPOLI FOREST DIVISION

Name of project : Construction of 132 KV T/L from Seppa to Bameng
 User Agency : Power Deptt.
 Location of CA : Kassing Putu (Ago) VFR=88.10 ha & Repari (Rakhe) VFR - 69.00 ha
 Area of CA : 157.10 ha.
 Wages rate (DL) : 333/-

		Unit	Qnt	Rate	Amount	
A	Creation of Nursery					
	Cost of seedlings @ 1100 Nos. / ha.	ha	172810	18	3110580	
1	1ST YEAR OPERATION					
	Survey & demarcation and preperation of map @ 4 mandays/ ha.	ha	157.10	1332	209257	
	Sub Total					
2	2ND YEAR OPERATION					
	(i) Erection of barbed wire fence (5 strand) fencing per 100 Rmt.	Rmt	9900	231.52	2292048	
	(ii) Maint. Barbed wire fencing @ 5% of erection cost in each year from 3rd year to 6th year Add.					
	Add 10% escalation value by multiplying factor:					
	1.20 for 3rd year					
	1.3 for 4th year					
	1.4 for 5th year					
	1.5 for 6th year					
	Sub-Total					
3	Raising of seedlings for casualty replacement	No.	43203	18.0	777654	
	3rd year 15%=165 Nos					
	4th year 10%= 110 Nos. Total= 275 Nos.					
4	RAISING OF PLANTATION					
	(i) Clearance of brush wood, planting lines & staking of debris @ 15 mandays/ha.	ha	157.10	53114	8344209	
	(ii) Alignment of pits & preparation of stakes, staking @ 10 mandays/ha					
	(iii) Digging of pits 30 Cm X 30 Cm X 30 Cm @ 22 mandays/ha					
	(iv) Preperation of thala by uprooting of debris by hoeing around pits @ 22 mandays/ha					
	(v) Carring of sapling to the planting site i/c planting of sapling @ 30 mandays (Area II) & 20 mandays (Area-I)/ha					
	(vi) Making of inspection path 1mtr wide @ 3 mandays/ha					

	(vii) Fire line cutting 3mtrs wide along the periphery @ 5 mandays/ha					
	(viii) Tending - 4 weeding @ 12 mandays/weeding/ha					
	Add 10% escalation value on total of item 4(i) to 4(viii)					
5	3RD YEAR OPERATION	ha	157.10	17982	2824972	
	(i) Tending - 3 weeding @ 12 mandays/ha					
	(ii) Casualty replacement 15%					
	(iii) Maint. of inspection path @ 1 manday/ha					
	(iv) Maint. Of fireline @ 1 manday/ha					
	Add 20% escalation value on total of item 5(i) to 5(iv)					
6	4TH YEAR OPERATION	ha	157.10	14286	2244331	
	(i) Tending -2 weedings @ 12 mandays/weeding/ha					
	(ii) Casualty replacement 10% @ 7 mandays/ha					
	(iii) Maint. Of inspection path @ 1 manday/ha					
	(iv) Maint. of fireline @ 1 manday/weeding/ha					
	Add 30% escalation value on item 6(i) to 6(iv)					
7	5TH YEAR OPERATION	ha	157.10	6527	1025392	
	(i) Tending - 1 weedings @ 12 mandays/weeding/ha					
	(ii) Maint. of inspection path @ 1 manday/ha					
	(iii) Maint. Of fire line @ 1 manday/ha					
	(iv) Add paid holiday @ 18.63% on item 7(i) to 7 (iii)					
	Add 40% escalation value on item 7(i) to 7(iv)					
8	6TH YEAR OPERATION	ha	157.10	6993	1098600	
	(i) Tending - 1 weedings @ 12 mandays/weeding/ha					
	(ii) Maint. of inspection path @ 1 mnday/ ha.					
	(iii) Maint. of fireline @ 1 manday/ha.					
	Add 50% escalation value on item 8(i) to 8(iii)					
9	7TH YEAR OPERATION	ha	157.10	2664	418514	
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	Add 60% escalation value on total item 9(i)					
10	8TH YEAR OPERATION	ha	157.10	2831	444750	

	(i) Maint. of inspection path / fireline & climbing cutting @ 5 mandays/ha					
	Add 70% escalation value on item 10(i)					
	Sub-Total					
11	9TH YEAR OPERATION	ha	157.10	2997	470829	
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	Add 80% escalation value on total of item 11(i)					
12	10TH YEAR OPERATION	ha	157.10	3164	497064	
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	Add 90% escalation value on total of item 12 (i)					
13	Wages for plantation watchman at the rate of Un/skilled labourer round the year for 10 year (one watchman for every 25 ha) @ 10000/- for Area-I & Rs.10500/- for Area-II per month. Add escalation value by multiplying factor 1st year.	No.	6	1740000	10440000	
	(M.F=1.1) for 2nd year					
	(M.F=1.2) for 3rd year					
	(M.F=1.3) for 4th year					
	(M.F=1.4) for 5th year					
	(M.F=1.5) for 6th year					
	(M.F=1.6) for 7th year					
	(M.F=1.7) for 8th year					
	(M.F=1.8) for 9th year					
	(M.F=1.9) for 10th year					
14	a) Const. of OBT labour shed (2 room) for workers at Plantation site subject to a minimum area of 15 ha and upto 25 ha beyond 25 ha one room to be added for every 13 ha or part thereof at proportionate cost.	No.	6.00	492000	2952000	
	b) Maint. Of OBT hut @ 25% of the const. Cost per year from 4th year to 6th year including escalation value by multiplying factor					
	1.3 for 4th year					
	1.4 for 5th year					
	1.5 for 6th year					
15	a) Const. of Modified improved Basha Type standard size quarter for every 50 ha	No.	3.00	2439700	7319100	

	b) Maint. of @ 20% of const. Cost per year from 2nd year to 9th year including					
	1.2 for 3rd year					
	1.3 for 4rd year					
	1.4 for 5rd year					
	1.5 for 6rd year					
	1.6 for 7rd year					
	1.7 for 8rd year					
	1.8 for 9rd year					
16	Provision for Plantation Supervisor for every 150ha @ Rs.11000/- for Area-I & Rs.11500/- for Area-II per month for 10 yrs where CA area is more than 150 ha adding escalation value as item No.13 above, adding escalation value by multiplying factor as below:	No.	1.00	1914000	1914000	
	(M.F=1.1) for 2nd year					
	(M.F=1.2) for 3rd year					
	(M.F=1.3) for 4th year					
	(M.F=1.4) for 5th year					
	(M.F=1.5) for 6th year					
	(M.F=1.6) for 7th year					
	(M.F=1.7) for 8th year					
	(M.F=1.8) for 9th year					
	(M.F=1.9) for 10th year					
17	Entry point activities	ha	157.10	14600	2293660	
18	Approach foot track to plantation in area where necessary	Rmt	3000	6.57	19710	
19	Monitoring, Supervision (POL, Maint. of vehicles, including TE etc.) @ 12% and Contingency @ 3% to meet up unseen expenditure i.e 15% on item No.1 to16 plus Nursery cost to meet the unforeseen expenditure Rs.48696671/-				7304500	
20	Provision for soil and moisture conservation structures (where needed) @ Rs. 7200/- per ha.	ha	157.10	7200	1131120	
				Total	57132291	
				or say Rs.57132000		

(Rupees five crore seventy one lakh thirty two thousand) only

Prepared by

(Signature)

(D.K.Poddar) Addl. Chief Estimator
O/O PCCF, Itanagar

(R.K.Singh)
Nodal Officer (FCA)

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Estimate for creation and maintenance of Dwarf Species (Preferably Medicinal Plant/ Herb/Shrubs) in Right of way under Seppa Forest Division.

Name of project : 132 KV T/L from Seppa to Bameng
User Agency : Deptt. of Power
Area for dwarf plantation : 78.548 ha
Wages rate (DL) : 333/-

Sl. No.	Item of works					Remarks
		Unit	Qty	Rate	Amount	
A	Creation of Nursery					
	Cost of seedlings @ 4400 Nos. / ha. (spacing 1.5 m x 1.5 m)	ha	385211	18	6933798	
1	1ST YEAR OPERATION					
	Survey & demarcation and preparation of map @ 4 mandays/ ha.	ha	78.55	1332	104626	
	Sub Total					
2	Raising of seedlings for casualty replacement	No.	96303	18.0	1733454	
	3rd year 15%=1500					
	4th year 10%= 1000 Nos. Total= 2500 Nos.					
3	RAISING OF PLANTATION					
	(i) Clearance of brush wood, planting lines & staking of debris @ 15 mandays per ha.	ha	78.55	88828	6977262	
	(ii) Alignment, staking & preparation of stakes, @ 28 mandays/ha.					
	(iii) Digging of pits 30 Cm X 30 Cm @ 83 mandays/ha					
	(iv) Carrying of saplings to the planting site i/c planting of saplings @ 69 mandays (Area-I)/ha @ 83 mandays (Area-II)					
	(v) Tending - 4 weeding @ 12 mandays/weeding per ha.					
	Add 10% escalation value on total of item 4(i) to 4(viii)					
4	3RD YEAR OPERATION	ha	78.55	23177	1820507	
	(i) Tending - 3 weeding @ 12 mandays/weeding per ha					
	(ii) Casualty replacement 15% of saplings.					
	Add 20% escalation value on total of item 3(i) to 3(ii)					
5	4TH YEAR OPERATION	ha	78.55	19913	1564126	
	(i) Tending -2 weedings @ 12 mandays/weeding per ha					
	(ii) Casualty replacement 10% saplings					
	Add 30% escalation value on item 4(i) to 4(ii)					

6	5TH YEAR OPERATION	ha	78.55	5594	439398	
	(i) Tending - 1 weeding @ 12 mandays/weeding per ha					
	Add 40% escalation value on item 7(i)					
7	Wages for plantation watchman at the rate of U/skilled labourer round the year for 5 (five) years (one watchman for every 25 ha of area subject to a minimum area of 15 ha) @ Rs.10000/- for Area-I & Rs.10500/- for Area-II per month adding escalation value by multiplying factor as below.	No.	3.00	600000	1800000	
	(M.F=1.1) for 2nd years					
	(M.F=1.2) for 3rd years					
	(M.F=1.3) for 4th years					
	(M.F=1.4) for 5th years					
8	Monitoring, Supervision (POL, Maint.of vehicles, including TE etc) @ 7% and Contingency @ 3% to meet up unseen expenditure i.e 10% on item No.1 to 7 plus Nursery cost Rs.21373171/-				3205976	
				Total	24579147	
					or say 24579000	

(Rupees two crore forty five lakh seventy nine thousand) only

Prepared by

[Signature]

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(R.K.Singh)
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