

(1355)

**ESTIMATE FOR RAISING COMPENSATORY AFFORESTATION PLANTATION UNDER KHELLONG FOREST
DIVISION**

Name of project : Construction of 33 Kv T/L from Tawang to Lumla
User Agency : Power Deptt.
Location of CA : Doimara RF
Area of CA : 141.73 ha.
Wages rate (DL) : 333/-

		Unit	Qnt	Rate	Amount	
A	Creation of Nursery					
	Cost of seedlings @ 1100 Nos. / ha.	ha	155903	18	2806254	
1	1ST YEAR OPERATION					
	Survey & demarcation and preparation of map @ 4 mandays/ ha.	ha	141.73	1332	188784	
	Sub Total					
2	2ND YEAR OPERATION					
	(i) Erection of barbed wire fence (5 strand) fencing per 100 Rmt.	Rmt	6600	231.52	1528032	
	(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.	38976	18.0	701568	
	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 debries @ 15 mandays/ha.	ha	141.73	53114	7527847	
	(ii) Alignment of pits & preparation of stakes, staking @ 10 mandys/ha					
	(iii) Digging of pits 30 Cm X 30 Cm X 30 Cm @ 22 mandays/ha					
	(iv) Prepration 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-I0/ha					

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	(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	141.73	17982	2548589	
	(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	141.73	14286	2024755	
	(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	141.73	6527	925072	
	(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	141.73	6993	991118	
	(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	141.73	2664	377569	

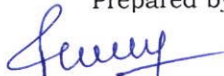
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	Add 60% escalation value on total item 9(i)					
10	8TH YEAR OPERATION	ha	141.73	2831	401238	
	(i) Maint. of inspection path / fireline & climbing cutting @ 5 mandays/ha					
	Add 70% escalation value on item 10(i)					
	Sub-Total					
11	9TH YEAR OPERATION	ha	141.73	2997	424765	
	(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	141.73	3164	448434	
	(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					

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	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	2622600	7867800	
	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	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.42153824/-				6323074	
17	Provision for soil and moisture conservation structures (where needed) @ Rs. 7200/- per ha.	ha	141.73	7200	1020456	
				Total	49497354	
					or say Rs.49497000	

(Rupees four crore ninety four lakh ninety seven thousand) only

Prepared by



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



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

Estimate for creation and maintenance of Dwarf Species (Preferably Medicinal Plant) in Right of way under

Tawang Social Forestry Division.

Name of project

132 KV T/L from Tawang to Lumla

User Agency

: Deptt. of Power

Area for dwarf plantation

: 70.86 ha


Wages rate (DL)

: 350

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)	No.	311784	19	5923896	
1	1ST YEAR OPERATION					
	Survey & demarcation and preparation of map @ 4 mandays/ ha.	Mandays	283.440	350	99204	
	Sub Total					
2	Raising of seedlings for casualty replacement	No.	77946	19.0	1480974	
	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.	Mandays	19983.00	350	6994050	
	(ii) Alignment, staking & preparation os stakes, @ 28 mandays/ha.					
	(iii) Digging of pits 30 Cm X 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	Mandays	4932.00	350	1726200	
	(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	Mandays	4238.00	350	1483300	
	(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	Mandays	1205.00	350	421750
	(i) Tending - 1 weedings @ 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	630000	1890000
	(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				2001957
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.20019570/-				
				Total	22021331
					22021300

(Rupees two crore twenty lakh twenty one thousand three hundred) only

Prepared by

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