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ESTIMATE FOR RAISING COMPENSATORY AFFORESTATION PLANTATION UNDER TAWANG SOCIAL FORESTRY DIVISION

Name of project : Construction of 132 KV T/L from Ziro (PG) to Ziro (New)
User Agency : Power Deptt.
Location of CA : Muktur VFR
Area of CA : 66.40 ha
Wages rate (DL) : 350/-

		Unit	Qty	Rate	Amount	
A	Creation of Nursery					
	Cost of seedlings @ 1100 Nos. / ha.	ha	73040	19	1387760	
1	1ST YEAR OPERATION					
	Survey & demarcation and preparation of map @ 5 DL/ ha.	ha	66.40	1400	92960	
	Sub Total					
2	2ND YEAR OPERATION					
	(i) Erection of barbed wire fence (5 strand) fencing per 100 Rmt.	Rmt	4600	233.68	4266997	
	(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.	18260	19.0	346940	
	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 D/L per ha.	ha	66.40	59675	3962420	
	(ii) Alignment of pits & preparation of stakes, staking					
	(iii) Digging of pits 30 Cm X 30 Cm X 30 Cm					
	(iv) Transportation of seedlings to the planting site i/c planting of seedling					
	(v) Making of inspection path 1mtr wide					
	(vi) Fire line cutting 3mtrs wide along the periphery					
	(vii) Tending - 4 weeding					

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	(viii) Prepration of thala by uprooting of debris by hoeing around pits @ 22 Mandays/ha					
	Add 10% escalation value on total of item 4(i) to 4(viii)					
5	3RD YEAR OPERATION	ha	66.40	18900	1254960	
	(i) Tending - 3 weeding					
	(ii) Casualty replacement 15%					
	(iii) Maint. of inspection path					
	(iv) Maint. Of fireline					
	Add 20% escalation value on total of item 5(i) to 5(iv)					
6	4TH YEAR OPERATION	ha	66.40	15015	996996	
	(i) Tending -2 weedings					
	(ii) Casualty replacement 10%					
	(iii) Maint. Of inspection path					
	(iv) Maint. of fireline					
	Add 30% escalation value on item 6(i) to 6(iv)					
7	5TH YEAR OPERATION	ha	66.40	6860	455504	
	(i) Tending - 1 weedings					
	(ii) Maint. of inspection path					
	(iii) Maint. Of fire line					
	(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	66.40	7350	488040	
	(i) Tending - 1 weedings					
	(ii) Maint. of inspection path @ 1 DL/ ha.					
	(iii) Maint. of fireline @ 1DL/ha.					
	Add 50% escalation value on item 8(i) to 8(iii)					
9	7TH YEAR OPERATION	ha	66.40	2800	185920	
	(i) Maint. of inspection path / fireline & climber cutting					
	Add 60% escalation value on total item 9(i)					
10	8TH YEAR OPERATION	ha	66.40	2975	197540	
	(i) Maint. of inspection path / fireline & climbing cutting					
	Add 70% escalation value on item 10(i)					
	Sub-Total					
11	9TH YEAR OPERATION	ha	66.40	3150	209160	
	(i) Maint. of inspection path / fireline & climber cutting					
	Add 80% escalation value on total of item 11(i)					

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2	10TH YEAR OPERATION	ha	66.40	3325	220780	
	(i) Maint. of inspection path / fireline & climber cutting					
	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.	3	1827000	5481000	
	(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 one modified improved standard size Barsha (MB) type quarter for every 50 ha.	No.	1.00	2622600	2622600	
	b) Maint. Of @ 20% of const. cost per year (from 2nd year to 9th year) including.					
	escalation value by multiplying					
	1.1 for 2nd year x 76340					
	1.2 for 3rd year					
	1.3 for 4th year					
	1.4 for 5th year					
	1.5 for 6th year					
	1.6 for 7th year					
	1.7 for 8th year					
	1.8 for 9th year					
	1.9 for 10th year.					
15	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.	3.00	528900	1586700	
16	Approach foot track to plantation in area where necessary	Rmt	1500	7.16	10740	

17	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.23767017/-				3565053	
18	Entry point activities at the rate of Rs.14600/- per ha for area-I and 15800/- for area-II.	ha	66.40	15800	1049120	
19	Provision for soil and moisture conservation structures (where needed) @ Rs. 8050/- per ha.	ha	66.40	8050	534520	
				Total	28915710	
					or say Rs.28916000	

(Rupees two crore eighty nine lakh sixteen thousand) only

Prepared by



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



(R.K. Singh)
PCCF (A&V) & Nodal Officer

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ESTIMATE FOR RAISING COMPENSATORY AFFORESTATION PLANTATION UNDER SEPPA FOREST DIVISION

Name of project : Construction of 1312 KV SC T/L from Ziro (PG) to Ziro (New)
 User Agency : Power Deptt.
 Location of CA : Rangbuk Mebua VFR
 Area of CA : 13.00 ha.
 Wages rate (DL) : 333/-

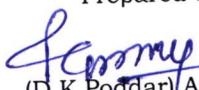
		Unit	Qty	Rate	Amount	Remarks
A	Creation of Nursery					
	Cost of seedlings @ 1100 Nos. / ha. 1/100 x 13=14300	No.	14300	18	257400	
1	1ST YEAR OPERATION					
	Survey & demarcation and preparation of map @ 4 mandays/ ha. 13x4=52	Manday	13.00	1332	17316	
	Sub Total					
2	2ND YEAR OPERATION					
	(i) Erection of barbed wire fence (5 strand) fencing per 100 Rmt.	Rmt	2000	231.52	463040	It includes maintenance of B/wire fencing upto 6th years.
	(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.	3575	18.0	64350	
	3rd year 15%=165 Nos					
	4th year 10%= 110 Nos. Total= 275 Nos/ha 275x13=3575.					
4	RAISING OF PLANTATION					
	(i) Clearance of brush wood, planting lines & staking of debris @ 15 mandays/ha.	Manday	2073.52	333	690482	It includes item at col.4(i) to 4(ix)
	(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) Preparation of thala by uprooting of debris by hoeing around pits @ 22 mandays/ha					

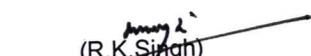
	(v) Carring of sapling to the planting site i/c planting of sapling @ 30 mandays (Area II) & 20 mandays (Area-IO/ha					
	(vi) Making of inspection path 1mtr wide @ 3 mandays/ha					
	(vii) Fire line cutting 3mtrs wide along the periphery @ 5 mandays/ha					
	(viii) Tending - 4 weeding @ 12 mandays/weeding/ha					
	(ix) Add 10% escalation value on total of item 4(i) to 4(viii)					
5	3RD YEAR OPERATION	Manday	702.00	333	233766	It includes item 5(i) to 5(v)
	(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					
	(v) Add 20% escalation value on total of item 5(i) to 5(iv)					
6	4TH YEAR OPERATION	Manday	557.70	333	185714	It includes 6(i) to 6(v)
	(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					
	(v) Add 30% escalation value on item 6(i) to 6(iv)					
7	5TH YEAR OPERATION	Manday	254.80	333	84848	It includes 7(i) to 7(v)
	(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)					
	(v) Add 40% escalation value on item 7(i) to 7(iv)					
8	6TH YEAR OPERATION	ha	273.00	333	90909	It includes 8(i) to 8(v)
	(i) Tending - 1 weedings @ 12 mandays/weeding/ha					
	(ii) Maint. of inspection path @ 1 mnday/ ha.					

	(iii) Maint. of fireline @ 1 manday/ha.					
	(iv) Add 50% escalation value on item 8(i) to 8(iii)					
9	7TH YEAR OPERATION	ha	104.00	333	34632	It includes item 9(i) to 9(ii)
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	(ii) Add 60% escalation value on total item 9(i)					
10	8TH YEAR OPERATION	ha	110.50	333	36797	It includes item 10(i) to 10(ii)
	(i) Maint. of inspection path / fireline & climbing cutting @ 5 mandays/ha					
	(ii) Add 70% escalation value on item 10(i)					
	Sub-Total					
11	9TH YEAR OPERATION	ha	117.00	333	38961	It includes item 11(i) to 11(ii)
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	(ii) Add 80% escalation value on total of item 11(i)					
12	10TH YEAR OPERATION	ha	123.50	333	41126	It includes item 12(i) to 12(ii)
	(i) Maint. of inspection path / fireline & climber cutting @ 5 mandays/ha					
	(ii) 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.				
	(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.					
	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					
16	Entry point activities	ha	13.00	14600	189800	
17	Approach foot track to plantation in area where necessary	Rmt	1000	6.57	6570	
18	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.2435711/-				365356	
19	Provision for soil and moisture conservation structures (where needed) @ Rs. 7200/- per ha.	ha	13.00	7200	93600	
				Total	2894667	
				or say Rs.2894700		

(Rupees twenty eight lakh ninety four thousand seven hundred) only

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