

ESTIMATE FOR RAISING PENAL COMPENSATORY AFFORESTATION PLANTATION UNDER NAMPONG

FOREST DIVISION

Name of Project

Laying of 33 KV Transmission line from Miao to Diyun

User Agency

By Power Grid Corp. of India.

Location of CA

Miao & Diyun RF

Area of CA

43.43 ha x 2 = 86.86 or say 87 ha.

Perimeter

7230 Rmt

Wages rate (DL)

333/-

Sl. No.	Item of works	Unit	Qty	Rate	Amount	Remarks
A	Creation of Nursery 1100 Nos per ha (spacing 3m x 3m)	No.	95700	18	1722600	
1	1ST YEAR OPERATION					
	Survey & demarcation and preparation of map @ 5 DL/ ha.	Ha	87.00	1665	144855	
	Add paid holidays @ 18.63%					
2	2ND YEAR OPERATION					
	(i) Erection of barbed wire fence (5 strand) fencing per 100 Rmt.	Rmt	7230.00	214.00	1547220	
	(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					
3	Raising of seedlings for casualty replacement	No.	23925	18.00	430650	
	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 D/L per ha.	Ha	87.00	53480	4652760	
	(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					
	(viii) Add paid holiday @ 18.63%					
	Add 10% escalation value on total of item 4(i) to 4(viii)					
5	3RD YEAR OPERATION					
	(i) Tending - 3 weeding	Ha	87.00	21179	1842573	
	(ii) Casualty replacement 15%					
	(iii) Maint. of inspection path					
	(iv) Maint. Of fireline					
	(v) Add paid holiday @ 18.63 % on item 5 (i) to 5 (iv)					
	Add 20% escalation value on total of item 5(i) to 5(v)					
6	4TH YEAR OPERATION					
	(i) Tending -2 weedings	Ha	87.00	16883	1468821	
	(ii) Casualty replacement 10%					
	(iii) Maint. Of inspection path					
	(iv) Maint. of fireline					
	(v) Add paid holiday @ 18.63% on item 6(i) to 6 (iv)					
	Add 30% escalation value on item 6(i) to 6(v)					
7	5TH YEAR OPERATION					
	(i) Tending - 1 weedings	Ha	87.00	7925	689475	
	(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					
	(i) Tending - 1 weedings	Ha	87.00	8492	738804	
	(ii) Maint. of inspection path @ 1 DL/ ha.					
	(iii) Maint. of fireline @ 1DL/ha.					
	(iv) Add paid holiday @ 18.63% on item 8(i) to 8 (iii)					
	Add 50% escalation value on item 8(i) to 8(iv)					
9	7TH YEAR OPERATION					
	(i) Maint. of inspection path / fireline & climber cutting	Ha	87.00	3197	278139	
	(ii) Add paid holiday 18.63% item 9(i)					
	Add 60% escalation value on total item 9(i) to 9(ii)					
10	8TH YEAR OPERATION					

	(i) Maint. of inspection path / fireline & climbing cutting	Ha	87.00	3397	295539	
	(ii) Add paid holiday @ 18.63% on total of item 10(i)					
	Add 70% escalation value on item 10(i) to 10 (ii)					
11	9TH YEAR OPERATION					
	(i) Maint. of inspection path / fireline & climber cutting	Ha	87.00	3596	312852	
	(ii) Add paid holiday @ 18.63% on item 11 (i)					
	Add 80% escalation value on total of item 11(i) to 11 (ii)					
12	10TH YEAR OPERATION					
	(i) Maint. of inspection path / fireline & climber cutting	Ha	87.00	3796	330252	
	(ii) Add paid holiday @ 18.63% on item 12 (i)					
	Add 90% escalation value on total of item 12 (i) to 12 (ii)					
13	Wages for plantation watchman at the rate of U/skilled labourer round the year for 10 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.Add escalation value by multiplying factor 1st year	No.	3	1740000	5220000	
	(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.				
	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					
15	a) Const.of OBT labourer 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.				
	b) Maint.of OBT hut @ 25% of the const.of cost per year from 4th year to 6th year including:					
	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					
16	Approach foot track to plantation in area where necessary	Rmt	8000	5.71	45680	
17	Monitoring, Supervision (POL, Maint.of vehcles, including TE etc.) @ 12% and Contingency @ 3% to meet up unseen expenditure i.e.15% on item No.1 to 16 plus nursery cost over 19720220/-				2958033	
18	Provision for soil and moisture conservation structures (where needed) @ Rs. 6200/- per ha.	Ha	87.00	6200	539400	
				Grand Total	23217653	
				or say	23217700	

(Rupees Two crore thirty two lakh seventeen thousand seven hundred) only

Prepared by:


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10.10.2019