

Scheme for Dwarf Species/Medicinal Plantation under Transmission Line corridor under Aie-Valley Forest Division

(Diversion of 19.187 ha forest land for for construction of 400 KV D/C Transmission Line from Bongaigaon to Nangalbibra)

Total effective area of transmission line in all PRF areas under Aie-Valley Division : (4171 M X 46 M) = 19.187 Hac

Total effective area of forest diversion under Aie-Valley Forest Division : 19.5 Hac

Tree cutting shall be allowed in two strips of 3 meters width each below both the conductors. Hence total area available for plantation : (3 M+3 M) X 4171 = 2.50 Hac

Among two strips, one 3 meters outer strip shall be left clear to permit maintenance activities of transmission line. Hence, free space for medicinal plantation shall be : 2.50 Hac / 2 = 1.25 Hac
Say 1.3 Hac

Total area to be covered by medicinal plantation 1.3 Hac

Estimation for 2 Ha Block Plantation

Spacing of plantation : 3 M X 3 M

Total No. of seedlings per block : 1100/hac X 2 = 2200 Nos.

ESTIMATE FOR 1 (ONE) BLOCK PLANTATION (2 HA)

S. No.	Particular	Qty	Unit	Rate	Amount (Rs.)	Applicable rate of GST/Cess etc.	
A	Advance work					GST (14.05%)	Labour Cess (1%)
A.1				Wage rate per day (Rs.)	320		
1	Site selection survey, demarcation, jungle cutting, burning etc. 16 DLs/ ha = Total 32 DLs	32	DLs	320	₹ 10,240.00		
2	Procurement of stacking materials & making in to sticks & fixing at site @ 10 DLs/ ha = Total 20 DLs	20	DLs	320	₹ 6,400.00		
3	Cost of full G. P. F. fencing with 2 line barbed wire to be fitted on RCC pillars at 2Mt. apart including labour for 4171 RM @ 720 per RM.	4171	RM	720	₹ 3,003,120.00	₹ 421,938.36	₹ 30,031.20
4	Wages of DLs for carrying, fitting, fixing etc of the fencing material complete as directed @ 25 DLs/ ha	50	DLs	320	₹ 16,000.00	₹ 2,248.00	₹ 160.00
5	Cost of tools. Implements, sign boards etc including filling, fixing etc @ 500/- per ha.	2	L.S.	500	₹ 1,000.00		
Total					₹ 3,036,760.00	₹ 424,186.36	₹ 30,191.20
TOTAL FOR ADVANCE WORK					₹ 3,491,137.56		
A.2	1st year creation of Plantation and Maintenance						
1	Procurement of polypot seedling @ Rs. 7/- from departmental nursery to the plantation site.	2200	L.S.	7	₹ 15,400.00		
2	Transportation of polypot seedling from existing departmental nursery to the plantation site.		L.S.		₹ 4,000.00		
3	Wages for planting with misselleneous spp. Like Amlokhi, G. Neem, Kordoi, Sonaru etc with 3 M X 3 M spacing including carriage of seedling to the plantation site 20 DLs/ha	40	DLs	320	₹ 12,800.00		
4	4 weeding, vacancy filling etc 30DLs/ha	60	DLs	320	₹ 19,200.00		
5	Fire line protection @ 2 DLs/ ha	4	DLs	320	₹ 1,280.00		
6	Watering of seedlings @ 26 DLs/ha	52	DLs	320	₹ 16,640.00		
TOTAL FOR 1st YEAR					₹ 69,320.00		

A.3 2nd year maintenance							
1	4 weeding, vacancy filling etc 30DLs/ha	60	DLs	352	₹ 21,120.00		
2	Procurement of 500 Nos. of polypot seedlings @ Rs. 7/- per seedling for vacancy filling.	500	DLs	7	₹ 3,500.00		
3	Watering of seedlings @ 26 DLs/ha	52	DLs	352	₹ 18,304.00		
4	Fire line protection @ 2 DLs/ ha	4	DLs	352	₹ 1,408.00		
5	Manuring of the seedlings @ Rs. 1000/ha	2	L.S.	1000	₹ 2,000.00		
TOTAL FOR 2nd YEAR					₹ 46,332.00		
A.4 3rd year maintenance							
1	4 weeding, vacancy filling etc 30DLs/ha	60	DLs	387	₹ 23,232.00		
2	Procurement of 500 Nos. of polypot seedlings @ Rs. 7/- per seedling for vacancy filling.	500	DLs	7	₹ 3,500.00		
3	Watering of seedlings @ 26 DLs/ha	52	DLs	387	₹ 20,134.40		
4	Repairing of fencing where necessary 3DLs/ ha	6	DLs	387	₹ 2,323.20		
5	Fire line protection @ 2 DLs/ ha	4	DLs	387	₹ 1,548.80		
6	Manuring of the seedlings @ Rs. 1000/ha	2	L.S.	1000	₹ 2,000.00		
TOTAL FOR 3rd YEAR					₹ 52,738.40		
A.5 4th year maintenance							
1	4 weeding, vacancy filling etc 30DLs/ha	60	DLs	426	₹ 25,555.20		
2	Fire line protection @ 2 DLs/ ha	4	DLs	426	₹ 1,703.68		
3	Manuring of the seedlings @ Rs. 1000/ha	2	L.S.	426	₹ 851.84		
TOTAL FOR 4th YEAR					₹ 28,110.72		
A.6 5th year maintenance							
1	3 weeding, vacancy filling etc 27DLs/ha	54	DLs	469	₹ 25,299.65		
2	Fire line protection @ 2 DLs/ ha	4	DLs	469	₹ 1,874.05		
3	Manuring of the seedlings @ Rs. 1000/ha	2	L.S.	469	₹ 937.02		
TOTAL FOR 5th YEAR					₹ 28,110.72		
A.7 6th year maintenance							
1	Climber cutting & upkeeping @ 6 DLs/ha	12	DLs	515	₹ 6,184.36		
2	Fire line protection @ 2 DLs/ ha	4	DLs	515	₹ 2,061.45		
3	Repairing of fencing where necessary 3DLs/ ha	6	DLs	515	₹ 3,092.18		
4	Control burning 4 DLs/ha	8	L.S.	515	₹ 4,122.91		
TOTAL FOR 6th YEAR					₹ 15,460.90		
A.8 7th year maintenance							
1	Pruning 6 DLs/ha	12	DLs	567	₹ 6,802.79		
2	Fire line protection @ 2 DLs/ ha	4	DLs	567	₹ 2,267.60		
3	Control burning 4 DLs/ha	8	L.S.	567	₹ 4,535.20		
TOTAL FOR 7th YEAR					₹ 13,605.59		
A.9 8th year maintenance							
1	Pruning 6 DLs/ha	12	DLs	624	₹ 7,483.07		
2	Fire line protection @ 2 DLs/ ha	4	DLs	624	₹ 2,494.36		
3	Control burning 4 DLs/ha	8	L.S.	624	₹ 4,988.72		
TOTAL FOR 8th YEAR					₹ 14,966.15		
A.10 9th year maintenance							
1	Pruning 6 DLs/ha	12	DLs	686	₹ 8,231.38		
2	Fire line protection @ 2 DLs/ ha	4	DLs	686	₹ 2,743.79		
3	Control burning 4 DLs/ha	8	L.S.	686	₹ 5,487.59		
TOTAL FOR 9th YEAR					₹ 16,462.76		
A.11 10th year maintenance							
1	Pruning 6 DLs/ha	12	DLs	755	₹ 9,054.52		
2	Fire line protection @ 2 DLs/ ha	4	DLs	755	₹ 3,018.17		
3	Control burning 4 DLs/ha	8	L.S.	755	₹ 6,036.35		
TOTAL FOR 10th YEAR					₹ 18,109.04		
TOTAL PROJECT COST FOR TEN (10) YEARS (For 1 Block of 2 ha)					₹ 3,794,354		

Total for 1 Block of 2 ha area : Rs. 3794354
 Total for 1 Block of 1 ha area : Rs. 1897177
 Total for 1.3 ha (Effective area of plantation) : Rs. 2466330
(A) : Rs. 2466330

B Watch and Ward Expenditure							
1	Wages of watch and ward 1 No. for 365 days (1st year)	365	DLs	320.00	₹ 116,800		
2	Wages of watch and ward 1 No. for 365 days (2nd year)	365	DLs	352	₹ 128,480		
3	Wages of watch and ward 1 No. for 365 days (3rd year)	365	DLs	387	₹ 141,328		
4	Wages of watch and ward 1 No. for 365 days (4th year)	365	DLs	426	₹ 155,461		
5	Wages of watch and ward 1 No. for 365 days (5th year)	365	DLs	469	₹ 171,007		
6	Wages of watch and ward 1 No. for 365 days (6th year)	365	DLs	515	₹ 188,108		
7	Wages of watch and ward 1 No. for 365 days (7th year)	365	DLs	567	₹ 206,918		
8	Wages of watch and ward 1 No. for 365 days (8th year)	365	DLs	624	₹ 227,610		
9	Wages of watch and ward 1 No. for 365 days (9th year)	365	DLs	686	₹ 250,371		
10	Wages of watch and ward 1 No. for 365 days (10th year)	365	DLs	755	₹ 275,408		
TOTAL FOR WATCH AND WARD FOR TEN (10) YEARS					₹ 1,861,491		
C Overhead Expenditure							
1	Cost of construction of semi permanent camp hut 6 M X 4 M with C. I. sheet roofing with tabular structure with facilities of cooking and improvised sanitary latrines,	1	Nos	250000	₹ 250,000.00		
2	Purchase of 1 No. of motorcycle for movement of staff@1,20,000/-	1	Nos	120000	₹ 120,000.00		
3	Installation of 1 No. of tubewell for watering	1	L.S.	50000	₹ 50,000.00		
4	Installation of a solar lighting system for the	1	L.S.	25000	₹ 25,000.00		
5	Awareness and Monitoring	1	L.S.		₹ 20,000.00		
6	Office Expenses		L.S.		₹ 20,000.00		
7	Contingency		L.S.		₹ 10,000.00		
TOTAL OVERHEAD EXPENDITURE					₹ 495,000.00		
Grand Total (A+B+C) =		2466330	1861491	495000	₹ 4,822,821		
(Rupees Forty Eight Lakhs Twenty Two Thousand Eight Hundred Twenty One Only)							

N.B.: The above estimation has been done on the presumption of Annual wages enhancement of 10% from the prevailing wages rate of Rs. 320/- per unskilled labour.

Technically approved.

Conservator of Forests
Lower Assam Social Forestry Circle
Bongaigaon

Submitted by,

Divisional Forest Officer
Aie Valley Division
Bongaigaon