SCHEME FOR 0.23 HA DWARF SPECIES PLANTATION UNDER NAGAON DIVISION
(Project: Construction of 400 kV D/C Silchar-Misa Transmission line - a part near Misa Sub-station of NER II Transmission Ltd.)
(Location: Under and along the Transmission Line in Doboka RF)

Total effective area of transmission line in Doboka RF under Nagaon Division.	: (322 X 46 M) = 1.4812 ha	
Tree cutting shall be allowed in two strips of 7 meters width each below both the conductors. Hence total area available for plantation.	: (7 M + 7 M) x 322 M	= 0.4508 HA
As per MoEF guideline, among two strips, one 7 meters outer strip shall be left clear to permit maintenance of transmission line. Hence, free space for dwarf species plantation	: 0.4508/2 = 0.2254 HA	
Total area to be covered by dwarf plantation as per calculation	**: 0.2254 ha (Say 0.23 ha)**	
Minimum Norm for Dwarf Species Block Plantation = 2 Ha		
Therefore, size of the Block stands to	: 2857 M X 7 M = 2.0 ha	
Spacing of plantation	: 3 M X 3 M	
Total No. of seedlings per block	: 1100/ha X 2 = 2200 Nos.	
Name of Species	Amlokhi *(Emblica officinalis)* Bagnala *(Litsea glutinosa)* Agar *(Aquilaria malaccensis)* Bhatghila *(Oroxylum imdicum)* Kordoi *(Averrhoa carambola)* Satmul (*Asparagus racemosus*) Chukchini (*Smilax glabra*) Satkara (*Citrus macroptera*)	

ESTIMATE FOR 1 (ONE) BLOCK PLANTATION (2 HA)					
S.	**Partricular**	**Qty**	**Unit**	**Rate**	**Amount (Rs.)**
A	Advance work				
1	Site selection survey, demarcation, jungle cutting, burning etc. 16 DLs/ ha = Total 32 DLs @ Rs. 250/-	32	DLs	250	₹ 8,000.00
2	Procurement of stacking materials & making in to sticks & fixing at site @ 10 DLs/ ha = Total 20 DLs @Rs. 250/-	20	DLs	250	₹ 5,000.00
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 600 RM @ 720 per RM.	600	DLs	720	₹ 4,32,000.00
4	Wages of DLs for carrying, fitting, fixing etc of the fencing material complete as directed @ 25 DLs/ ha for 2 ha = 50 DLs	50	DLs	250	₹ 12,500.00
5	Cost of tools. Implements, sign boards etc including filling, fixing etc @ 500/- per ha.	2	L.S.	500	₹ 1,000.00
	TOTAL FOR ADVANCE WORK				**₹ 4,58,500.00**
B	**1st year creation of Plantation and Maintenance (@ Rs. 250/DLs)**				
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.	40	DLs	250	₹ 10,000.00

4	4 weeding, vacancy filling etc 30DLs/ha = 60 DLs	60	DLs	250	₹ 15,000.00
5	Fire line protection @ 2 DLs/ ha	4	DLs	250	₹ 1,000.00
6	Watering of seedlings @ 26 DLs/ha	52	DLs	250	₹ 13,000.00
	TOTAL FOR 1st YEAR				**₹ 58,400.00**
C	**2nd year maintenance (@ Rs. 275/DLs)**				
1	4 weeding, vacancy filling etc 30DLs/ha = 60 DLs	60	DLs	275	₹ 16,500.00
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	275	₹ 14,300.00
4	Fire line protection @ 2 DLs/ ha	4	DLs	275	₹ 1,100.00
5	Manuring of the seedlings @ Rs. 1000/ha	2	L.S.	1000	₹ 2,000.00
	TOTAL FOR 2nd YEAR				**₹ 37,400.00**
D	**3rd year maintenance (@ Rs. 303/DLs)**				
1	4 weeding, vacancy filling etc 30DLs/ha = 60 DLs	60	DLs	303	₹ 18,150.00
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	303	₹ 15,756.00
4	Repairing of fencing where necessary 3DLs/ ha	6	DLs	303	₹ 1,818.00
5	Fire line protection @ 2 DLs/ ha	4	DLs	303	₹ 1,212.00
6	Manuring of the seedlings @ Rs. 1000/ha	2	L.S.	1000	₹ 2,000.00
	TOTAL FOR 3rd YEAR				**₹ 42,436.00**
E	**4th year maintenance (@ Rs. 333/DLs)**				
1	4 weeding, vacancy filling etc 30DLs/ha = 60 DLs	60	DLs	333	₹ 19,980.00
2	Fire line protection @ 2 DLs/ ha	4	DLs	333	₹ 1,332.00
3	Manuring of the seedlings @ Rs. 1000/ha	2	L.S.	333	₹ 666.00
	TOTAL FOR 4th YEAR				**₹ 21,978.00**
F	**5th year maintenance (@ Rs. 366/DLs)**				
1	3 weeding, vacancy filling etc 27DLs/ha = 54 DLs	54	DLs	366	₹ 19,764.00
2	Fire line protection @ 2 DLs/ ha	4	DLs	366	₹ 1,464.00
3	Manuring of the seedlings @ Rs. 1000/ha	2	L.S.	366	₹ 732.00
	TOTAL FOR 5th YEAR				**₹ 21,960.00**
G	**6th year maintenance (@ Rs. 403/DLs)**				
1	Climber cutting & upkeeping @ 6 DLs/ha = 12 DLs	12	DLs	403	₹ 4,836.00
2	Fire line protection @ 2 DLs/ ha	4	DLs	403	₹ 1,612.00
3	Repairing of fencing where necessary 3DLs/ ha	6	DLs	403	₹ 2,418.00
4	Control burning 4 DLs/ha	8	L.S.	403	₹ 3,224.00
	TOTAL FOR 6th YEAR				**₹ 12,090.00**
H	**7th year maintenance (@ Rs. 443/DLs)**				
1	Prunning 6 DLs/ha	12	DLs	443	₹ 5,316.00
2	Fire line protection @ 2 DLs/ ha	4	DLs	443	₹ 1,772.00
3	Control burning 4 DLs/ha	8	L.S.	443	₹ 3,544.00
	TOTAL FOR 7th YEAR				**₹ 10,632.00**
I	**8th year maintenance (@ Rs. 487/DLs)**				
1	Prunning 6 DLs/ha	12	DLs	487	₹ 5,847.60
2	Fire line protection @ 2 DLs/ ha	4	DLs	487	₹ 1,949.20
3	Control burning 4 DLs/ha	8	L.S.	487	₹ 3,898.40
	TOTAL FOR 8th YEAR				**₹ 11,695.20**
J	**9th year maintenance (@ Rs. 536/DLs)**				
1	Prunning 6 DLs/ha	12	DLs	536	₹ 6,432.36
2	Fire line protection @ 2 DLs/ ha	4	DLs	536	₹ 2,144.12
3	Control burning 4 DLs/ha	8	L.S.	536	₹ 4,288.24

				TOTAL FOR 9th YEAR	₹ 12,864.72
K	**10th year maintenance (@ Rs. 589/DLs)**				
1	Prunning 6 DLs/ha	12	DLs	589	₹ 7,068.00
2	Fire line protection @ 2 DLs/ ha	4	DLs	589	₹ 2,356.00
3	Control burning 4 DLs/ha	8	L.S.	589	₹ 4,712.00
				TOTAL FOR 10th YEAR	**₹ 14,136.00**
	TOTAL PROJECT COST FOR TEN (10) YEARS (For 1 Block of 2 ha area)				**₹ 7,02,091.92**

Total for 1 Block of 2 ha area : Rs. 7,02,092.00

Total for 0.23 ha (Effective area of plantation) : (Rs. 7,02,092.00 X 0.23)/2 (Block)

: Rs. 80,740.57

B	**Watch and Ward Expenditure**				
1	Wages of watch and ward 1 No. for 365 days (1st year)	365	DLs	250	₹ 91,250
2	Wages of watch and ward 1 No. for 365 days (2nd year)	365	DLs	275	₹ 1,00,375
3	Wages of watch and ward 1 No. for 365 days (3rd year)	365	DLs	303	₹ 1,10,595
4	Wages of watch and ward 1 No. for 365 days (4th year)	365	DLs	333	₹ 1,21,545
5	Wages of watch and ward 1 No. for 365 days (5th year)	365	DLs	366	₹ 1,33,590
6	Wages of watch and ward 1 No. for 365 days (6th year)	365	DLs	403	₹ 1,47,095
7	Wages of watch and ward 1 No. for 365 days (7th year)	365	DLs	433	₹ 1,58,045
8	Wages of watch and ward 1 No. for 365 days (8th year)	365	DLs	487	₹ 1,77,755
9	Wages of watch and ward 1 No. for 365 days (9th year)	365	DLs	536	₹ 1,95,640
10	Wages of watch and ward 1 No. for 365 days (10th year)	365	DLs	589	₹ 2,14,985
	TOTAL FOR WATCH AND WARD FOR TEN (10) YEARS				**₹ 14,50,875**
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, tubewells etc.	1	Nos	250000	₹ 2,50,000.00
2	Purchase of 1 No. of motorcycle for movement of staff@60,000/-	1	Nos	60000	₹ 60,000.00
3	Installation of 1 No. of tubewell for watering seedlings	1	L.S.	50000	₹ 50,000.00
4	Installation of a solar lighting system for the camp	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				**₹ 4,35,000.00**

Grand Total (A+B+C) : (Rs. 80,740.57 + 14,50,875.00 + 4,35,000.00) = Rs. 19,66,615.57	
= Rs. 19,66,616.00 (Say)	
(Rupees Nineteen Lakhs Sixty Six Thousand Six Hundred Sixteen 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. 250/- per unskilled labour.

1/1/2021

Divisional Forest Officer
Nagaon Division
Nagaon