

Scheme for 3 ha C.A. Plantation in Doboka RF against diversion of 1.483 ha Forest land for Construction of 400 kV D/C Silchar-Misa Transmission line - a part near Misa Sub-station of NER II Transmission Ltd.

under Nagaon Division

ESTIMATE FOR 3 HA CA PLANTATION BASED ON NORMS FOR 5 HA BLOCK PLANTATION

Area (ha)	=	3
Spacing (m X m)	=	2 X 2
Number of Saplings/ ha	=	2500
Length of Fence (RM)	=	682
Wage rate for the 1st year(Rs.)	=	250
Increase in wage rate for subsequent years by a factor	=	1.1
Appreciation of material costs by a factor	=	1.1

S.No.	Particulars of works	Units	Qty./ha	Total Qty.	Rate / Unit	Amount (Rs.)
A	ERECTION OF FENCING			@Rs. 250.0 /DL		
	(a) Cost of full Chain-linked Goat Proof fencing (4' ht. with 10 Gauge, 3" dia link) to be fitted on Pre-cast RCC pillars* at 1.8 mt. apart including transportation of fencing materials to site for 682 RM @ Rs. 800 per RM as per estimate	RMs		682	800.0	545600.0
	(b) Wages of DLs for carrying, fitting, fixing etc. of fencing materials @ 20 DLs/ 100 RM	DLs		136	250.0	34100.0
	Sub-total					579700.0
B	INFRASTRUCTURE IN PLANTATION AREA					
	Construction of camp hut (atleast one upto 25 ha & thereafter one per every 25 ha) as per estimate	nos.		1	150000.0	150000.0
	Installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 25 ha)	nos.		1	50000.0	50000.0
	Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	nos.		1	50000.0	50000.0
	Cost of tools & implements (One unit upto 25 ha & thereafter one unit per every 25 ha)	nos.		1	10000.0	10000.0
	Cost of RCC signboard & Gate including fitting and fixing of the same (atleast one upto 25 ha & thereafter one per every 25 ha)	nos.		1	60000.0	60000.0
	Camp accessories @ Rs. 10,000/ per camp	nos.		1	10000.0	10000.0
	Construction of Inspection Path 682 RM @ Rs. 50/- RM	RMs		341	50.0	17050.0
	sub total					347050.0
C	ADVANCE WORK				@Rs. 250.0 /DL	
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	60	250.0	15000.0
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @ Rs.6/- per polypot	nos.	2500	7500	6.0	45000.0
	Preparation of polypot saplings in the field nursery for vacancy filling					
	a) 25% mortality expected during 1st year (to be planted in the field during the 2nd year) ,i.e., 625 Seedlings/ ha @ Rs.6.5/- per polypot	nos.	625	1875	6.5	12187.5
	b) 20% mortality expected during 2nd year (to be planted in the field during the 3rd year) ,i.e., 500 Seedlings/ ha @ Rs.7/- per polypot	nos.	500	1500	7.0	10500.0

	c) 15% mortality expected during 3rd year (to be planted in the field during the 4th year), i.e., 375 Seedlings/ ha @ Rs.7.5/- per polypot	nos.	375	1125	7.5	8437.5
	d) 10% mortality expected during 4th year (to be planted in the field during the 5th year), i.e., 250 Seedlings/ ha @ Rs.8/- per polypot	nos.	250	750	8.0	6000.0
	Cost of Bamboo, making of stacking & transportation etc	nos.	625	1875	1.0	1875.0
	Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha	DLs	5	15	250.0	3750.0
	Supervision and Monitoring	L.S.				10000.0
	Sub total					112750.0
D	CREATION & 1st YEAR MAINTENANCE @Rs. 250.0 /DL					
	Soil working, carriage of stumps, polypot seedling and planting at the plantation site including, dibbling of seeds wherever necessary to complete raising of plantation with all necessary operation @ 40 DLs/ ha	DLs	40	120	250.0	30000.0
	5 weedings, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	270	250.0	67500.0
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	15	250.0	3750.0
	Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	250.0	91250.0
	Maintenance of camp huts, implements, ring/tube- well, upkeepment of plantation, signboard, documentation, upkeepment of records and other misc. work	L.S.				10000.0
	Awareness & Monitoring @ Rs. 800/ha	L.S.		3	800.0	2400.0
	Sub total					204900.0
E	2nd YEAR MAINTENANCE @ Rs. 275.0 /DL					
	5 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	75	225	275	61875.0
	25% Vacancy filling by 1 year old seedlings from nursery@ 10DLs/ha	DLs	10	30	275	8250.0
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	15	275	4125.0
	Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	275	100375.0
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				11000.0
	Supervision Cost	L.S.		1		2400.0
	Contingency L.S.	L.S.				2500.0
	sub total					190525.0
F	3rd YEAR MAINTENANCE @ Rs. 302.5 /DL					
	4 weedings, fire protection works @15 DLs/ha/weeding	DLs	60	180	302.5	54450.0
	20% Vacancy filling by 2 year old seedlings from nursery@ 8DLs/ha	DLs	8	24	302.5	7260.0
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	15	302.5	4537.5
	Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	302.5	110412.5
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records	L.S.				12100.0
	Supervision Cost	L.S.		1		2400.0
	Contingency @ 15 % over previous year	L.S.				2875.0
	Sub total					194035.0

G	4th YEAR MAINTENANCE	@ Rs. 332.8 /DL				
	4 weedings, fire protection works @15 dls/ha/weeding	DLs	60	180	332.8	59895.0
	15% Vacancy filling by 2 year old seedlings from nursery@ 6DLs/ha	DLs	6	18	332.8	5989.5
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	15	332.8	4991.3
	Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	332.8	121453.8
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				13310.0
	Supervision Cost	L.S.		1		2400.0
	Contingency @ 15 % over previous year	L.S.				3306.3
	sub total					211345.8
H	5th YEAR MAINTENANCE	@ Rs. 366.0 /DL				
	Climber cutting, weeding & other silvicultural works and fire protection works @ 15DLs/ha	DLs	15	60	366.0	21961.5
	10% Vacancy filling by 2 year old seedlings from nursery@ 4DLs/ha	DLs	4	12	366.0	4392.3
	Maintenance & fencing post replacement @ 3% initial cost of material			0	545600.0	16368.0
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	12	366.0	4392.3
	Watch and ward for the plantation area(1DL for 365 days).	DLs		365	366.0	133599.1
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				14641.0
	Supervision Cost	L.S.		1		2400.0
	Contingency @ 15 % over previous year	L.S.				3802.2
	sub total					201556.4
I	6th YEAR MAINTENANCE	@ Rs. 402.6 /DL				
	Climber cutting, other silvicultural works and fire protection works @15 DLs/ha	DLs	15	45	402.6	18118.2
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	12	402.6	4831.5
	Watch and ward for the plantation area (1DL for 365 days).	DLs		365	402.6	146959.0
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				16105.1
	Supervision Cost	L.S.				2400.0
	Contingency @ 15 % over previous year	L.S.				4372.5
	sub total					192786.4
J	7th YEAR MAINTENANCE	@ Rs. 442.9 /DL				
	Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	36	442.9	15944.0
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha	DLs	5	15	442.9	6643.4
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				17715.6
	Supervision Cost	L.S.				2400.0
	Contingency @ 15 % over previous year	L.S.				5028.4
	sub total					47731.4

K	8th YEAR MAINTENANCE	@ Rs. 487.2 /DL			
	Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	24	11692.3
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha	DLs	5	15	7307.7
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.			19487.2
	Supervision Cost	L.S.			2400.0
	Contingency @ 15 % over previous year	L.S.			5782.7
	sub total				46669.8
I	9th YEAR MAINTENANCE	@ Rs. 535.9 /DL			
	Climber cutting, other silvicultural works and fire protection works @ 7 DLs/ha	DLs	7	21	11253.8
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha	DLs	5	15	8038.5
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.			21435.9
	Supervision Cost	L.S.			2400.0
	Contingency @ 15 % over previous year	L.S.			6650.0
	sub total				49778.2
M	10th YEAR MAINTENANCE	@ Rs. 589.5 /DL			
	Climber cutting, other silvicultural works, fire protection works @ 6 DLs/ha	DLs	6	18	10610.8
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs /ha	DLs	4	12	7073.8
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.			23579.5
	Supervision Cost	L.S.			2400.0
	Contingency @ 15 % over previous year	L.S.			7647.6
	sub total				51311.6
Total					2430139.7
Overhead Cost @50% of Total CA Cost					1215069.8
Grand Total					3645209.5

Rs. 36,45,210 Say)

IN WORDS

(RUPEES THIRTY SIX LAKHS FORTY FIVE THOUSAND TWO HUNDRED TEN ONLY)

NOTE:

Cost escalation of 10 % annually has been considered for wages

The norms should be revised annually based on wage rate & cost of materials

*Pre-cast RCC pillar with 5"x5" cross-section- of 6 ft height (1.5 ft below ground & 4.5 ft above ground) with readymade concrete base of 1 ft width for fixing.

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 Divisional Forest Officer
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