

Scheme for 20.8 hac C.A. Plantation in Ranga RF against diversion of 10.381 hac Forest land for Construction of 132 kV D/C Pare HEP to Lakhimpur Transmission Line by Vapi II-North Lakhimpur Transmission Ltd under Lakhimpur Forest Division

ESTIMATE FOR 20.8 HAC CA PLANTATION BASED ON NORMS FOR 10 HA BLOCK PLANTATION

	Area (ha)		=	20.8		
	Spacing (m X m)		=	2 X 2		
	Number of Saplings/ ha		=	2500		
	Length of Fence (RM)		=	1951		
	Wage rate for the 1st year(Rs.)		=	320		
	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. @Rs.	Rate / Unit /DL	Amount (Rs.)
A	ERECTION OF FENCING				320 /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 1951 RM @ Rs. 800 per RM as per estimate	RMs		1951	800	1560800
	(b) Wages of DLs for carrying, fitting, fixing etc. of fencing materials @ 20 DLs/ 100 RM	DLs		390	320	124864
	Sub-total					1685664
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	150,000	150000
	Installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 25 ha)	nos.		2	50,000	100000
	Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	nos.		1	50,000	50000
	Cost of tools & implements (One unit upto 25 ha & thereafter one unit per every 25 ha)	nos.		1	10,000	10000
	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	60,000	60000
	Camp accessories @ Rs. 10,000/ per camp	nos.		1	10,000	10000
	Construction of Inspection Path 975.5 RM @ Rs. 50/- RM	RMs		975.5	50	48775
	Construction of Staff quarters as per estimate (One unit for 10 to 50 ha & there after one unit per every 50 ha)	nos.		1	800,000	800000
	Provision of Solar energy for staff quarters including installation	nos.		1	70,000	70000
	sub total					1298775
C	ADVANCE WORK				320 /DL	
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	416	320	133120
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @ Rs.6/- per polypot	nos.	2500	52000	6	312000
	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	13000	6.5	84500
	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	10400	7	72800

	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	7800	7.5	58500
	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	5200	8	41600
	Cost of Bamboo, making of stacking & transportation etc	nos.	625	13000	1	13000
	Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha	DLs	5	104	320	33280
	Supervision and Monitoring	L.S.				10000
	Sub total					758800
D	CREATION & 1st YEAR MAINTENANCE			@Rs.	320 /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	832	320	266240
	5 weedings, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	1872	320	599040
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	104	320	33280
	Maintenance and protection of field nursery and watch and ward for the plantation area (IDL for 365 days).	DLs		365	320	116800
	Maintenance of camp huts, implements, ring/tube- well, upkeepment of plantation, signboard, documentation, upkeepment of records and other misc. work	L.S.				10000
	Awareness & Monitoring @ Rs. 800/ha	L.S.		20.8	800	16640
	Sub total					1042000
E	2nd YEAR MAINTENANCE			@ Rs.	352 /DL	
	5 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	75	1560	352	549120
	25% Vacancy filling by 1 year old seedlings from nursery @ 10DLs/ha	DLs	10	208	352	73216
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	104	352	36608
	Maintenance and protection of field nursery and watch and ward for the plantation area (IDL for 365 days).	DLs		365	352	128480
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				11000
	Supervision Cost	L.S.		1		16640
	Contingency L.S.	L.S.				2500
	sub total					817564
F	3rd YEAR MAINTENANCE			@ Rs.	387 /DL	
	4 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	60	1248	387	483226
	20% Vacancy filling by 2 year old seedlings from nursery @ 8DLs/ha	DLs	8	166	387	64430
	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	104	387	40269
	Maintenance and protection of field nursery and watch and ward for the plantation area (IDL for 365 days).	DLs		365	387	141328
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records	L.S.				12100
	Supervision Cost	L.S.		1		16640
	Contingency @ 15 % over previous year	L.S.				2875
	Sub total					760867
G	4th YEAR MAINTENANCE			@ Rs.	426 /DL	
	4 weedings, fire protection works @ 15 dls/ha/weeding	DLs	60	1248	426	531548
	15% Vacancy filling by 2 year old seedlings from nursery @ 6DLs/ha	DLs	6	125	426	53155

	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	104	426	44296
	Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	426	155461
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				13310
	Supervision Cost	L.S.		1		16640
	Contingency @ 15 % over previous year	L.S.				3306
	<i>sub total</i>					817716
H	5th YEAR MAINTENANCE			@ Rs.	469	/DL
	Climber cutting, weeding & other silvicultural works and fire protection works @ 15 DLs/ha	DLs	15	416	469	194901
	10% Vacancy filling by 2 year old seedlings from nursery@ 4DLs/ha	DLs	4	83	469	38980
	Maintenance & fencing post replacement @ 3% initial cost of material			0.03	1560800	46824
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	83.2	469	38980
	Watch and ward for the plantation area(1DL for 365 days).	DLs		365	469	171007
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				14641
	Supervision Cost	L.S.		1		16640
	Contingency @ 15 % over previous year	L.S.				3802
	<i>sub total</i>					525775
I	6th YEAR MAINTENANCE			@ Rs.	515	/DL
	Climber cutting, other silvicultural works and fire protection works @15 DLs/ha	DLs	15	312	515	160793
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	83.2	515	42878
	Watch and ward for the plantation area(1DL for 365 days).	DLs		365	515	188108
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				16105
	Supervision Cost	L.S.				16640
	Contingency @ 15 % over previous year	L.S.				4373
	<i>sub total</i>					428897
J	7th YEAR MAINTENANCE			@ Rs.	567	/DL
	Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	250	567	141498
	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	104	567	58958
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				17716
	Supervision Cost	L.S.				16640
	Contingency @ 15 % over previous year	L.S.				5028
	<i>sub total</i>					239840
K	8th YEAR MAINTENANCE			@ Rs.	624	/DL
	Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	166	624	103765

	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	104	624	64853
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				19487
	Supervision Cost	L.S.				16640
	Contingency @ 15 % over previous year	L.S.				5783
	<i>sub total</i>					210528
I	9th YEAR MAINTENANCE			@ Rs.	686	/DL
	Climber cutting, other silvicultural works and fire protection works @ 7 DLs/ha	DLs	7	146	686	99874
	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	104	686	71339
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				21436
	Supervision Cost	L.S.				16640
	Contingency @ 15 % over previous year	L.S.				6650
	<i>sub total</i>					215939
M	10th YEAR MAINTENANCE			@ Rs.	755	/DL
	Climber cutting, other silvicultural works, fire protection works @ 6 DLs/ha	DLs	6	125	755	94167
	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	83.2	755	62778
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				23579
	Supervision Cost	L.S.				16640
	Contingency @ 15 % over previous year	L.S.				7648
	<i>sub total</i>					204812
Grand Total						9007177

IN WORDS

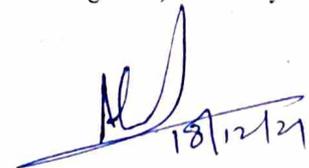
(RUPEES NINTY LAKHS SEVEN THOUSAND ONE HUNDRED SEVENTY SEVEN ONLY)

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.


18/12/21

Divisional Forest Officer
Lakhimpur Forest Division
North Lakhimpur

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