

Scheme for 2.61 ha C.A. Plantation at Gang Dalani under Sonitpur East Division

Diversion of 2.604 ha forest land for Construction of Holongi Airport

Area (ha)	=	2.61
Spacing (m X m)	=	2 X 2
Number of Saplings/ ha	=	2500
Length of Fence (RM)	=	775
Wage rate for the 1st year(Rs.)	=	273
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.)	Applicable rate of GST/ Cess etc			Total Amount
							GST	Labour Cess	Contractor's Profit	
A	ERECTION OF FENCING			@Rs.	273/DL					
	(a) Cost of full Chain-linked Goat Proof fencing (4' ht. with 10 Gauge, 3" dia link) with 3 strand barbed wire (one strand below the chain link and two stand above the chain link) to be fitted on Pre-cast RCC pillars of specific specification and size as per detaied specification attached at 2.5 m apart including transportation, fitting, fixing etc., of fencing materials to site for 1257 RM @ Rs. 1016 per RM as per estimate	RMs		775	1016	7,87,400				
	<i>Sub-total</i>					7,87,400	55,118	7,874		8,50,392
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	1,50,000	1,50,000				
	Installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 25 ha)	nos.		1	50,000	50,000				
	Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	nos.		1	50,000	50,000				
	Cost of tools & implements (One unit upto 25 ha & thereafter one unit per every 25 ha)	nos.		1	10,000	10,000				
	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	60,000				
	Camp accessories @ Rs. 10,000/ per camp	nos.		1	10,000	10,000				
	Construction of Inspection Path (calculated at 80% of the total perimeter length) = 1006 RM @ Rs. 50/- RM	RMs		620	50	31,000				
	<i>sub total</i>					3,61,000	25,270	3,610		3,89,880
C	ADVANCE WORK			@Rs.	273/DL					
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	52.2	273	14,251				
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @ Rs.8/- per polypot	nos.	2500	6525	8	52,200				
	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.8/- per polypot	nos.	625	1631.25	8	13,050				
	b) 20% mortality expected during 2nd year (to be planted in the field during the 3rd year) i.e., 500 Seedlings/ ha @ Rs.8.5/- per polypot	nos.	500	1305	8.5	11,093				
	c) 15% mortality expected during 3rd year (to be planted in the field during the 4th year),i.e., 375 Seedlings/ ha @ Rs.9/- per polypot	nos.	375	978.75	9	8,809				
	d) 10% mortality expected during 4th year (to be planted in the field during the 5th year),i.e., 250 Seedlings/ ha @ Rs.9.5/- per polypot	nos.	250	652.5	9.5	6,199				
	Cost of Bamboo, making of stacking & transportation etc	nos.	625	1631.25	1	1,631				
	Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha	DLs	5	13.05	273	3,563				
	<i>Sub total</i>					1,10,795	13,295	1,108	11,079	1,36,277
D	CREATION & 1st YEAR MAINTENANCE			@Rs.	273/DL					

CS Anand

	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	104	273	28,501				
	5 weedings, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	235	273	64,128				
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	13	273	3,563				
	Maintenance and protection of field nursery (1 DL for 365 days) and watch and ward for the plantation area(1DL for 365 days).	DLs		730	273	1,99,290				
	Maintenance of camp huts, implements, ring/tube- well, upkeepment of plantation, signboard, documentation, upkeepment of records and other misc. work	L.S.				10,000				
	Supervision and Monitoring	L.S.				20,000				
	Awareness & Monitoring	L.S.				10,000				
	Sub total					3,35,482	40,258	3,355	33,548	4,12,642
					@ Rs. 300/DL					
	E 2nd YEAR MAINTENANCE	DLs	75	196	300	58,725				
	5 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	10	26	300	7,830				
	25% Vacancy filling by 1 year old seedlings from nursery@ 10DLs/ha	DLs	5	13.05	300	3,915				
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs		730	300	2,19,000				
	Maintenance and protection of field nursery (1 DL for 365 days) and watch and ward for the plantation area(1DL for 365 days).	DLs								
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records and other miscellaneous work @ 10% over previous year	L.S.				11,000				
	Supervision and Monitoring @ 15% over previous year	L.S.				23,000				
	Contingency L.S.	L.S.				10,000				
	sub total					3,33,470	40,016	3,335	33,347	4,10,168
					@ Rs. 330/DL					
	F 3rd YEAR MAINTENANCE	DLs	60	157	330	51,678				
	4 weedings, fire protection works @15 DLs/ha/weeding	DLs	8	21	330	6,890				
	20% Vacancy filling by 2 year old seedlings from nursery@ 8DLs/ha	DLs	5	13.05	330	4,307				
	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		730	330	2,40,900				
	Maintenance and protection of field nursery (1 DL for 365 days) and watch and ward for the plantation area(1DL for 365 days).	DLs								
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records and other miscellaneous work @ 10% over previous year	L.S.				12,100				
	Supervision and Monitoring @ 15% over previous year	L.S.				26,450				
	Contingency @ 15 % over previous year	L.S.				11,500				
	Sub total					3,53,825	42,459	3,538	35,382	4,35,205
					@ Rs. 363/DL					
	G 4th YEAR MAINTENANCE	DLs	60	157	363	56,846				
	4 weedings, fire protection works @15 dls/ha/weeding	DLs	6	16	363	5,685				
	15% Vacancy filling by 2 year old seedlings from nursery@ 6DLs/ha	DLs	5	13.05	363	4,737				
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs		730	363	2,64,990				
	Maintenance and protection of field nursery (1 DL for 365 days) and watch and ward for the plantation area(1DL for 365 days).	DLs								
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records and other miscellaneous work @ 10% over previous year	L.S.				13,310				
	Supervision and Monitoring @ 15% over previous year	L.S.				30,418				
	Contingency @ 15 % over previous year	L.S.				13,225				

Udang

						3,89,211	46,705	3,892	38,921	4,78,729
H	5 th YEAR MAINTENANCE	sub total		@ Rs.	399/DL					
	Climber cutting, weeding & other silvicultural works and fire protection works @ 15DLs/ha	DLs	15	150	399	59,850				
	10% Vacancy filling by 2 year old seedlings from nursery@ 4DLs/ha	DLs	4	10	399	4,166				
	Maintenance & fencing post replacement @ 3% initial cost of material			0.03	787400	23,622				
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	10.44	399	4,166				
	Maintenance and protection of field nursery (1 DL for 365 days) and watch and ward for the plantation area(1DL for 365 days).	DLs		730	399	2,91,270				
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records and other miscellaneous work @ 10% over previous year	L.S.				14,641				
	Supervision and Monitoring @ 15% over previous year	L.S.				34,980				
	Contingency @ 15 % over previous year	L.S.				15,209				
	sub total					4,47,903	53,748	4,479	44,790	5,50,921
I	6 th YEAR MAINTENANCE			@ Rs.	439/DL					
	Climber cutting, other silvicultural works and fire protection works @15 DLs/ha	DLs	15	39	439	17,187				
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	10.44	439	4,583				
	Watch and ward for the plantation area(1DL for 365 days).	DLs		365	439	1,60,235				
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records and other miscellaneous work @ 10% over previous year	L.S.				16,105				
	Supervision and Monitoring @ 15% over previous year	L.S.				40,227				
	Contingency @ 15 % over previous year	L.S.				17,490				
	sub total					2,55,827	30,699	2,558	25,583	3,14,667
J	7 th YEAR MAINTENANCE			@ Rs.	483/DL					
	Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	31	483	15,128				
	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	13.05	483	6,303				
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records and other miscellaneous work @ 10% over previous year	L.S.				17,716				
	Supervision and Monitoring @ 15% over previous year	L.S.				46,261				
	Contingency @ 15 % over previous year	L.S.				20,114				
	sub total					1,05,521	12,663	1,055	10,552	1,29,791
K	8 th YEAR MAINTENANCE			@ Rs.	531/DL					
	Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	21	531	11,087				
	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	13.05	531	6,930				
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records and other miscellaneous work @ 10% over previous year	L.S.				19,487				
	Supervision and Monitoring @ 15% over previous year	L.S.				53,200				
	Contingency @ 15 % over previous year	L.S.				23,131				
	sub total					1,13,835	13,660	1,138	11,383	1,40,017
L	9 th YEAR MAINTENANCE			@ Rs.	584/DL					
	Climber cutting, other silvicultural works and fire protection works @ 7 DLs/ha	DLs	7	18	584	10,670				
	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	13.05	584	7,621				

Us Arange

	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records and other miscellaneous work @ 10% over previous year	L.S.				21,436				
	Supervision and Monitoring @ 15% over previous year	L.S.				61,180				
	Contingency @ 15 % over previous year	L.S.				26,600				
	<i>sub total</i>					1,27,507	15,301	1,275	12,751	1,56,834
M	10th YEAR MAINTENANCE			@ Rs.	642/DL					
	Climber cutting, other silvicultural works, fire protection works @ 6 DLs/ha	DLs	6	16	642	10,054				
	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	10.44	642	6,702				
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records and other miscellaneous work @ 10% over previous year	L.S.				23,579				
	Supervision and Monitoring @ 15% over previous year	L.S.				70,358				
	Contingency @ 15 % over previous year	L.S.				30,590				
	<i>sub total</i>					1,41,284	16,954	1,413	14,128	1,73,779
	Total =									45,79,301
	Over head cost @ 50% of Total CA Cost =									22,89,651
	Grand Total =									68,68,952

IN WORDS

(RUPEES SIXTY EIGHT LAKHS SIXTY EIGHT THOUSAND NINE HUNDRED AND FIFTY TWO 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.

Technically approved

Conservation of Forests
Northern Assam Circle, Tezpur

C. S. Anand
Divisional Forest Officer
Sonitpur East Division
Biswanath Chariali

g/c