

## ESTIMATE FOR COMPENSATORY AFFORESTATION AT WEST APRIKOLA RESERVE FOREST

## 9.5 HECT. BLOCK PLANTATION NORMS

Area (Hect.) =	10
Compartment No. =	c1
Spacing ( m x m ) =	2 x 2
Number of saplings / Hect. =	2500
Length of Fence (RM) =	1262
Wages rate for the 1st Year (Rs.) =	273
Increase in wages rate for subsequent years by a factor =	1.1
Appreciation of material costs by a factor =	1.1

Sl. No.	Particulars	Unit	Qty./ Hect.	Total Qty.	Rate / unit	Amount (Rs.)
<b>A.</b>	<b>ERECTION OF FENCING</b>	<b>@ Rs. 273/DL</b>				
	(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 transporation of fencing materials to site for 2800 RM @ Rs. 800/- per RM as per estimate	RMs		1262	800	1009600
	(b) Wages of DLs for carrying, fitting, fixing etc. of fencing materials @ 20 DLs/ 100 RM	DLs		288	273	78624
	<b>Sub total</b>					<b>1088224</b>
<b>B</b>	<b>INFRASTRUCTURE IN PLANTATION AREA</b>					
	Construction of camp hut (atleast one upto 25 Hect. & thereafter one per every 25 Hect.) as per estimate	Nos.		1	150000	150000
	Installation of ring/tube well (atleast one upto 10 Hect. & thereafter two per every 25 Hect.)	Nos.		1	50000	50000
	Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	Nos.		1	50000	50000
	Cost of tools & implements (one unit upto 25 Hect. & thereafter one unit per every 25 Hect.)	Nos.		1	10000	10000
	Cost of RCC signboard & Gate including fitting and fixing of the same (atleast one upto 25 Hect. & thereafter one per every 25 Hect.)	Nos.		1	60000	60000
	Camp accessories @ Rs. 10,000/- per camp	Nos.		1	10000	10000
	Construction of inspection path 1400 RM @ Rs. 50/- RM	RMs		1262	50	63100
	Construction of Staff quarter as per estimate (One unit for 10 to 50 ha & thereafter one unit per every 50 ha)	Nos.		1	800000	800000
	Provision of Solar energy for staff quartets including installation.	Nos.		1	70000	70000
	<b>Sub total</b>					<b>1263100</b>
<b>C</b>	<b>ADVANCE WORK</b>	<b>@ Rs. 273/DL</b>				
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/Hect.	DLs	20	273	273	74529



C	Preparation and acquisition of polypot sapling in the field nursery for planting 2500 Nos. seedlings/Hect. @ Rs. 6/- per polypot	Nos.	2500	30000	6	180000
	<b>Preparation fo polypot sapling in the field nursery for vacancy filling</b>					
	a) 25% mortality expected during 1st year (to be planted in the field during the 2nd year) i.e. 625 seedlings/Hect. @ Rs. 6.5/- per polypot	Nos.	625	7500	6.5	48750
	b) 20% mortality expected during 2nd year (to be planted in the field during the 3rd year) i.e. 500 Seedling/ha @ Rs.7/- per polypot.	Nos.	500	6000	7	42000
	c)10% mortality expected during 4th year (to be planted in the field during the 5th year) i.e. 250 Seedling/ha @ Rs.8/- per polypot.	Nos.	250	3000	8	24000
	Cost of Bamboo, making of stacking & transportation etc.	Nos.		625	50	31250
	Line aligment, cariage of stacking materials and fixing the stacking @ 5 DLs/ha	DLS	5	250	273	68250
	Supervision and Monitoring	L/S				10000
	<b>Sub total</b>					<b>478779</b>
D	<b>CREATION &amp; 1ST YEAR MAINTENANCE</b>				<b>273</b>	
	Soil working carriage of stums polypot seedling and planting at the plantation site including dibbling of seeds wherever necessar to complete raising of plantation with all necessary operation @ 40 DLs/ha	DLs	40	480	273	131040
	5 weedings mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	1080	273	294840
	Upkeepment of plantation and making of inspection path, repairing of fence etc. On day to day basis @ 5 Dls/ha	DLs	5	60	273	16380
	Maintanace of camp huts, implementations, ring/tube well upkeepment of plantation, signboard, documentation, upkeepment of records and other misc. Work	L.S.				10000
	Awarness & Monitoring @ Rs.800/- ha	L.S.		12	800	9600
	<b>Sub total</b>					<b>461860</b>
E	<b>2nd YEAR MAINTENANCE</b>				<b>@ Rs. 300 /DL</b>	
	5 weedings, fire protection works @ 15 Dls/ha/weeding	DLs	75	900	300	270000
	25% vacancy filling by 1 year old seedings from nursery @ 10 Dls/ha	DLs	10	120	300	36000
	Upkeepment of plantation and making of inspection path, repairing of fence etc. On day to day basis @ 5 Dls/ha	DLs	5	60	300	18000



E	Maintanace of camp huts, implementations, ring/tube well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				10000
	Supervision Cost	L.S.		1		10000
	Contingency L.S.	L.S.				5000
	<b>Sub total</b>					<b>349000</b>
F	<b>3rd YEAR MAINTENANCE</b>	<b>@ Rs. 330/DL</b>				
	4 weeding, fire protection works @ 15 DLs/ha/weeding	DLs	60	720	330	237600
	20% Vacancy filling by 2 year old seedling from nursery @ 8 DLs/ha	DLs	8	96	330	31680
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day basis @ 5 DLs/ha	DLs	5	60	330	19800
	Maintanace of camp huts, implementations, ring/tube well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				10000
	Supervision Cost	L.S.		1		12000
	Contingency @ 15% over previous year					60972
	<b>Sub total</b>					<b>372052</b>
G	<b>4th YEAR MAINTENANCE</b>	<b>@ Rs. 363/DL</b>				
	4 weeding, fire protection works @ 15 DLs/ha/weeding	DLs	60	720	363	261360
	15% Vacancy filling by 2 year old seedling from nursery @ 6 DLs/ha	DLs	6	72	363	26136
	Upkeepment of plantation and making of inspection path, repairing of fence etc. On day to day basis @ 5 Dls/ha	DLs	5	60	363	21780
	Maintanace of camp huts, implementations, ring/tube well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				12000
	Supervision Cost	L.S.		1		10000
	Contingency @ 15% over previous year					66429
	<b>Sub total</b>					<b>397705</b>
H	<b>5th YEAR MAINTENANCE</b>	<b>@ Rs. 399/DL</b>				
	Chmber cutting weeding & other silvicultural works and fire protection works @ 15 DLs/ha	DLs	15	180	399	71820
	10% Vacancy filling by 2 year old seedling from nursery @ 4 DLs/ha	DLs	4	48	399	19152
	Maintenance & fencing post and replacement @ 3% initial cost of material of Rs. 11,20,000.00					33600
	Upkeepment of plantation and making of inspection path, repairing of fence etc. On day to day basis @ 4 Dls/ha	DLs	4	48	399	19152



H	Maintanace of camp huts, implementations, ring/tube well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				12000
	Supervision Cost	L.S.		1		10000
	Contingency @ 15% over previous year					71498
	<b>Sub total</b>					<b>237222</b>
I	<b>6th YEAR MAINTENANCE</b>	<b>@ Rs. 438/DL</b>				
	Chmber cutting weeding & other silvicultural works and fire protection works @ 15 DLs/ha	DLs	15	180	438	78840
	Upkeepment of plantation and making of inspection path, repairing of fence etc. On day to day basis @ 4 DLs/ha	DLs	4	48	438	21024
	Maintanace of camp huts, implementations, ring/tube well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				13500
	Supervision Cost	L.S.				10000
	Contingency @ 15% over previous year					52813
	<b>Sub total</b>					<b>176177</b>
J	<b>7th YEAR MAINTENANCE</b>	<b>@ Rs. 482/DL</b>				
	Chmber cutting weeding & other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	144	482	69408
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day basis @ 5 DLs/ha	DLs	5	60	482	28920
	Maintanace of camp huts, implementations, ring/tube well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				17716
	Supervision Cost	L.S.				20000
	Contingency @ 15% over previous year					45781
	<b>Sub total</b>					<b>181825</b>
K	<b>8th YEAR MAINTENANCE</b>	<b>@ Rs. 530/DL</b>				
	Chmber cutting weeding & other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	96	530	50880
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day basis @ 5 DLs/ha	DLs	5	60	530	31800
	Maintanace of camp huts, implementations, ring/tube well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				14500
	Supervision Cost	L.S.				15000
	Contingency @ 15% over previous year					25530
	<b>Sub total</b>					<b>137710</b>



L	9th YEAR MAINTENANCE	@ Rs. 583/DL			
		DLs	7	84	583
	Chmber cutting weeding & other silvicultural works and fire protection works @ 7 DLs/ha	DLs	7	84	583
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day basis @ 5 DLs/ha	DLs	5	60	583
	Maintanace of camp huts, implementations, ring/tube well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.			20000
	Supervision Cost	L.S.			15000
	Contingency @ 15% over previous year				19206
	<b>Sub total</b>				<b>138158</b>
M	10th YEAR MAINTENANCE	@ Rs. 641/DL			
		DLs	6	72	641
	Chmber cutting weeding & other silvicultural works and fire protection works @ 6 DLs/ha	DLs	6	72	641
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day basis @ 4 DLs/ha	DLs	4	48	641
	Maintanace of camp huts, implementations, ring/tube well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.			20100
	Supervision Cost	L.S.			10000
	Contingency @ 15% over previous year				19255
	<b>Sub total</b>				<b>126275</b>
	<b>Total</b>				<b>54,08,087</b>
	Over Head cost 50% of CA				<b>27,04,044</b>
	<b>Grand Total =</b>				<b>81,12,131</b>

(Rupees Eighty One Lakhs Twelve Thousand One Hundred Thirty One) only



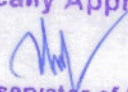
Abstract

Erecting of fencing	10,88,224.00
Infrastructure for plantation area	12,63,100.00
Advance work	4,78,779.00
Creation 1st year maintainance	4,61,860.00
Creation 2nd year maintainance	3,49,000.00
Creation 3rd year maintainance	3,72,052.00
Creation 4th year maintainance	3,97,705.00
Creation 5th year maintainance	2,37,222.00
Creation 6th year maintainance	1,76,177.00
Creation 7th year maintainance	1,81,825.00
Creation 8th year maintainance	1,37,710.00
Creation 9th year maintainance	1,38,158.00
Creation 10th year maintainance	1,26,275.00
Total	54,08,087.00
Overhead cost 50% of CA Total	27,04,044.00
Grand Total	81,12,131.00

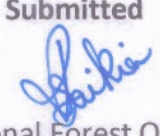
**Technically approved**

Chief Conservator of Forest,  
Central Assam Circle, Basistha,  
Guwahati - 29

**Technically Approved**

  
Chief Conservator of Forests  
Central Assam Circle,  
Guwahati-29

**Submitted**

  
Divisional Forest Officer,  
Kamrup East Division, Basistha,  
Guwahati - 29