

**ESTIMATE FOR COMPENSATORY AFFORESTATION FOR CREATION
AND MAINTENANCE OF 4.564 HECT PLANTATION AT KUNDIL KALIA RF UNDER
DOOMDOOMA DIVISION AGAINST KSDE(ONGC) DRILLING LOCATION.**

Location: KUNDIL KALIA R.F.

Area in Hactre	= 4.564 ha.
SPACING (m x m)	= 2 X 2
No. of Saplings/ha	= 2500
Length of fence (RM)	= 1046
Wage Rate for first year (Rs.)	= 273
Increase in wages rate for subsequent years by a factor	= 1:1
Appreciation of material costs by a factor	= 1:1

Species to be planted: Simul, Siris, Khokon, Hollock, Sisoo, Lali, Poma, Seleng, Moss, Bhelkor, Gomari, Hengalu, Ghoraneem

SI No	Particulars of works	Unit	Qty/Ha	Total Qty.	Rate/unit	Amount (in Rs.)
A	ERECTION OF FENCING				273/DL	
	(a) Cost of full chain linked Goat Proof fencing (4 ft ht. with 10 Gauge, 3" dia link) to be fitted on pre-cast RCC pillars at 1.80 mt. apart including transportation of fencing materials to site for 1046 RM @ Rs.800/per RM as per estimate	RMs	-	1046	800	836800.00
	(b) Wages of Dls for carrying, fitting, fixing etc. of fencing materials @ 20 Dls/ per 100 RM	DLs	-	209	273	57057.00
	Sub-total					893857.00
B	INFRASTRUCTURE IN PLANTATION AREA					
	Construction of camp hut	Nos.	-	1	150000	150000.00
	Installation of ring/tube well	Nos.	-	1	50000	50000.00
	Irrigation facility with Solar generator and hose pipes for watering the nursery and plantation (during dry spells)	Nos.	-	1	50000	50000.00
	Cost of tools & implements	Nos.	-	1	10000	10000.00
	Cost of Eco friendly material display board & Gate including fitting and fixing of the same	Nos.	-	1	60000	60000.00
	Camp accessories @ Rs.10,000/per camp	Nos.	-	1	10000	10000.00
	Construction of Inspection Path 800 RM @ Rs. 50/-RM	RMs	-	800	50	40000.00
	Sub-total					370000.00
C	ADVANCE WORK				@ Rs. 273/DL	
	Site selection, surveying, demarcation, jungle cutting, making compost etc. 20 Dls/Ha	DLs	20	91	273	24843.00
	Preparation and acquisition of bamboo pot saplings in the field nursery for planting 2500 Nos. seedlings/ha @ Rs. 6/ per polypot	Nos.	2500	11410	6	68460.00

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	2853	6.5	18545.00
b) 20% mortality expected during 2nd Year (to be planted in the field during the third year), i.e. 500 seedlings/ha @ Rs. 7/-per polypot	Nos.	500	2282	7	15974.00
c) 15% mortality expected during 3 rd Year (to be planted in the field during the 4th year), i.e. 375 seedlings/ha @ Rs. 7.50 per polypot	Nos.	375	1712	7.5	12840.00
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	1141	8	9128.00
Cost of bamboo, making, stacking & transportation etc.	Nos.	625	3358	1	3358.00
Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha.	DLs	5	23	273	6279.00
Supervision & Monitoring	L.S.				10000.00
Sub-total					169427.00
D CREATION & 1st YEAR MAINTENANCE	@ Rs. 273/DL				
Soil working, carriage of stump, Bamboo seedlings & planting at the plantation site including dibbling of seeds wherever necessary to complete raising of plantation with all necessary operations @ 40 DLs/ha.	DLs	40	183	273	49959.00
5 weedings, mulching & fire protection works @ 18 DLs/ha /weeding	DLs	90	411	273	112203.00
Upkeepment of plantation & making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	23	273	6279.00
Maintenance & protection of field nursery (1 DL for 365 days) & watch & ward for the plantation area (1 DLs for 365 days)	DLs	1	365	273	99645.00
Maintenance of camp huts, implements, ring/tube-well, upkeep of plantation, display board, documentation, upkeep of records and other misc. work.	LS	-	-	-	10000
Awareness and monitoring @ Rs. 800/ha	L.S.	-		800	3651.00
Sub-total					281737.00
E 2nd YEAR MAINTENANCE	@ Rs. 300/DL				
5 weedings, fire protection works @ 15 DLs/ha /weeding	DLs	75	342	300	102600.00
25% vacancy filling by 1 year old seedlings from nursery @ 10 DLs/ha	DLs	10	46	300	13800.00
Upkeepment of plantation & making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	23	300	6900.00
Maintenance & protection of field nursery (1 DL for 365 days) & watch & ward for the plantation area (1 DLs for 365 days)	DLs	1	365	300	109500.00

F	Maintenance of camp huts, implements, ring/tube-well, upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.	-	-	-	11000.00
	Supervision cost	L.S.	1			4000.00
	Contingency L.S.	L.S.				2500.00
	Sub-total					250300.00
G	3rd YEAR MAINTENANCE	@ Rs. 330/DL				
	4 weedings, fire protection works @ 15 DLs/ha /weeding	DLs	15	274	330	90420.00
	20% vacancy filling by 2 year old seedlings from nursery @ 8 DLs/ha	DLs	8	37	330	12210.00
	Protection work, cattle watching, upkeepment of plantation & making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	23	330	7590.00
	Maintenance & protection of field nursery (1 DL for 365 days) & watch & ward for the plantation area (1DLs for 365 days)	DLs	1	365	330	120450.00
	Maintenance of camp huts, implements, ring/tube-well, upkeepment of plantation, display board, documentation, upkeep of records.	L.S.	-	-	-	12100.00
	Supervision cost	L.S.	1		-	4000.00
	Contingency @ 15% over previous year	L.S.				2875.00
	Sub-total					249645.00
	4th YEAR MAINTENANCE	@ Rs. 363/DL				
	4 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	60	274	363	99462.00
	15% vacancy filling by 2 years old seedlings from nursery @ 6 DLs/ha	DLs	6	27	363	9801.00
	Upkeepment of plantation & making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	23	363	8349.00
	Maintenance & protection of field nursery (1 DL for 365 days) & watch & ward for the plantation area (1 DLs for 365 days)	DLs	1	365	363	132495.00
	Maintenance of camp huts, implements, ring/tube-well, upkeep of plantation, display board, documentation, upkeep of records etc.	L.S.	-	-	-	10000.00
	Supervision cost	L.S.				4000.00
	Contingency @ 15% over previous year	L.S.				3306.00
	Sub-total					267413.00

5th YEAR MAINTENANCE					@ Rs. 399/DL	
Climber cutting, weeding and other silvicultural works & fire protection works @ 8 DLs/ha	DLs	8	37	399	14763.00	
10% vacancy filling by 2 years old seedlings from nursery @ 4 DLs/ha	DLs	4	18	399	7182.00	
Maintenance & fencing post replacement @ 3% initial cost of material			0.03	836800	25104.00	
Upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	18	399	7182.00	
Watch & ward for the plantation area (1 DLs for 365 days)	DLs	1	365	399	145635.00	
Maintenance of camp hut, implements, ring/tube – well, upkeepment of plantation, display board, documentation and upkeep of records etc.	L.S.	-	-	-	15000.00	
Supervision cost	L.S.				4000.00	
Contingency @ 15% over previous year	L.S.				3802.00	
Sub-total					222668.00	
I	6th YEAR MAINTENANCE					@ Rs. 439/DL
Climber cutting, other silvicultural works & fire protection works @ 15 DLs/ha	DLs	15	68	439	29852.00	
Upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	18	439	7902.00	
Watch & ward for the plantation area (1 DLs for 365 days)	DLs	1	365	439	160235.00	
Maintenance of camp hut, implements, ring/tube– well, upkeepment of plantation, signboard, documentation and upkeepment of records etc.	L.S.	-	-	-	15000.00	
Supervision cost	L.S.				4000.00	
Contingency @ 15% over previous year	L.S.				4373.00	
Sub-total					221362.00	
J	7th YEAR MAINTENANCE					@ Rs. 483/DL
Climber cutting, other silvicultural works & fire protection works @ 12 DLs/ha	DLs	12	55	483	26565.00	
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	23	483	11109.00	
Maintenance of camp hut, implements, ring/tube– well, upkeep of plantation, display board, documentation and upkeepment of records etc.	L.S.	-	-	-	18000.00	
Supervision cost	L.S.	-	-	-	4000.00	
Contingency @ 15% over previous year	L.S.				5028.00	
Sub-total					64702.00	
K	8th YEAR MAINTENANCE					@ Rs. 531/DL
Climber cutting, other silvicultural works & fire protection works @ 8 DLs/ha	DLs	8	37	531	19647.00	
Protection work, cattle watching, upkeepment of	DLs	5	23	531	12213.00	


	plantation and making of inspection path, repairing of fence etc. on day to day basis @ 5 Dls/ha					
	Maintenance of camp hut, implements, ring/tube-well, upkeep of plantation, display board, documentation and upkeepment of records etc.	L.S.	-	-	-	20000.00
	Supervision cost	L.S.	-	-	-	4000.00
	Contingency @ 15% over previous year	L.S.	-	-	-	5783.00
	Sub-total					61643.00
L	9th YEAR MAINTENANCE					@ Rs. 584/DL
	Climber cutting, other silvicultural works & fire protection works @ 7 DLs/ha	DLs	7	32	584	18688.00
	Protection work, cattle watching, upkeep of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 5 Dls/ha	DLs	5	23	584	13432.00
	Maintenance of camp hut, implements, ring/tube-well, upkeepment of plantation, display board, documentation and upkeepment of records etc.	L.S.	-	-	-	22000.00
	Supervision cost	L.S.	-	-	-	4000.00
	Contingency @ 15% over previous year	L.S.	-	-	-	6650.00
	Sub-total					64770.00
M	10th YEAR MAINTENANCE					@ Rs. 642/DL
	Climber cutting, other silvicultural works & fire protection works @ 6 DLs/ha	DLs	6	27	642	17334.00
	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	18	642	11556.00
	Maintenance of camp hut, implements, ring/tube-well, upkeep of plantation, display board, documentation and upkeepment of records etc.	L.S.	-	-	-	25000.00
	Supervision cost	L.S.	-	-	-	4000.00
	Contingency @ 15% over previous year	L.S.	-	-	-	7648.00
	Sub-total					65538.00
	Total					3183062.00
	Overhead cost @50% of the total cost					1591531.00
	Grand total					4774593.00

(Rupees forty seven lakh seventy four thousand five hundred ninety three) only.

Technically Approved


 Conservator of Forests
 Eastern Assam Circle
 JORHAT

Submitted,

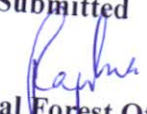

 Divisional Forest Officer,
 Doomdooma Division,
 DoomDooma.

ABSTRACT

Sl No.	Items	Amount(in Rs.)
1	A. Erection of fencing	893857.00
	B. Infrastructure in plantation area.	370000.00
	C. Advance work.	169427.00
	D. 1 st year creation and maintenance.	281737.00
2	E. 2 nd year maintenance	250300.00
3	F. 3 rd year maintenance	249645.00
4	G. 4 th year maintenance	267413.00
5	H. 5 th year maintenance	222668.00
6	I. 6 th year maintenance	221362.00
7	J. 7 th year maintenance	64702.00
8	K. 8 th year maintenance	61643.00
9	L. 9 th year maintenance	64770.00
6	M. 10 th year maintenance	65538.00
	Total	3183062.00
	Overhead cost @50% of the total cost	1591531.00
	Grand total	4774593.00

(Rupees forty seven lakh seventy four thousand five hundred ninety three) only.

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