

**NORMS FOR COMPENSATORY AFFORESTATION FOR CREATION
AND MAINTENANCE OF 8.0 HECT PLANTATION AT MESAKI RF UNDER
DOOMDOOMA DIVISION AGAINST DIVERSION OF FOREST LAND MKD.**

Location: Mesaki R.F.

Area in Hactre	= 8.0
SPACING (m x m)	= 2 X 2
No. of Saplings/ha	= 2500
Length of fence (RM)	= 1200
Wage Rate for first year (Rs.)	= 179.00
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 = 5% (good for vulture nesting), Bola, Mekai, Hollong, = 5%, Sissoo, Sopa, Sam, Khokan, Urium, Ajar, Poma = 25%, Hilikha, Bhumura, Amlakhi = 20%, Thekera = 10%, Bogi jamuk, Black Jamuk, Jalphai, Kathal, Teteli, Mango, Guava, letuku, Neem, Bokul, Owtenga, Assam lemon = 25%, Dimuru, Bhatghilla, Kadam, Sonaru = 10%

Sl No	Particulars of works	Unit	Qty/ Ha	Total Qty.	Rate/Unit	Amount (in Rs.)
A	ERECTION OF FENCING				179/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 1200 RM @ Rs.800/per RM as per estimate	RMs	-	1200	800	960000.00
	(b) Wages of Dls for carrying, fitting, fixing etc. of fencing materials @ 20 Dls/ per 100 RM	DLs	-	240	179	42960.00
	Sub-total					1002960.00
B	INFRASTRUCTURE IN PLANTATION AREA					
	Construction of camp hut	Nos.	-	1	150000	150000.00
	Installation of ring/tube well	Nos.	-	2	50000	100000.00
	Irrigation facility with Diesel 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 RCC signboard & 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 1700 RM @ Rs. 50/-RM	RMs	-	1700	50	85000.00
	Sub-total					455000.00

C	ADVANCE WORK					@ Rs. 179/DL	
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 Dls/Ha	DLs	20	160	179	28640.00	
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. seedlings/ha @ Rs. 6/ per polypot	Nos.	2500	20000.00	6	120000.00	
	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	5000	6.5	32500.00	
	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	4000	7	28000.00	
	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	3000.00	7.5	22500.00	
	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	2000.00	8	16000.00	
	Cost of bamboo, making, stacking & transportation etc.	Nos.	625	5000.00	1	5000.00	
	Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha.	DLs	5	40	179	7160.00	
	Supervision & Monitoring	L.S.				20000.00	
						Sub-total	279800.00
D	CREATION & 1st YEAR MAINTENANCE					@ Rs. 179/DL	
	Soil working, carriage of stump, polypot 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	320	179	57280.00	
	5 weedings, mulching & fire protection works @ 18 DLs/ha /weeding	DLs	90	720	179	128880.00	
	Upkeepment of plantation & making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	40	179	7160.00	
	Maintenance & protection of field nursery (1 DL for 365 days) & watch & ward for the plantation area (1 DLs for 365 days)	DLs	2	730	179	130670.00	

	Maintenance of camp huts, implements, ring/tube-well, upkeepment of plantation, signboard, documentation, upkeepment of records and other misc. work.	LS	-	-	-	10000
	Awareness and monitoring @ Rs. 800/ha	L.S.	-		800	6400.00
	Sub-total					340390.00
E	2nd YEAR MAINTENANCE @ Rs. 197/DL					
	5 weedings, fire protection works @ 15 DLs/ha /weeding	DLs	75	600	197	118200.00
	25% vacancy filling by 1 year old seedlings from nursery @ 10 DLs/ha	DLs	10	80	197	15760.00
	Upkeepment of plantation & making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	40	197	7880.00
	Maintenance & protection of field nursery (1 DL for 365 days) & watch & ward for the plantation area (1 DLs for 365 days)	DLs	2	730	197	143810.00
	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.				10000.00
	Contingency L.S.	L.S.				5000.00
	Sub-total					310650.00
F	3rd YEAR MAINTENANCE @ Rs. 217/DL					
	4 weedings, fire protection works @ 15 DLs/ha /weeding	DLs	60	480	217	104160.00
	20% vacancy filling by 2 year old seedlings from nursery @ 8 DLs/ha	DLs	8	64	217	13888.00
	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	40	217	8680.00
	Maintenance & protection of field nursery (1 DL for 365 days) & watch & ward for the plantation area (1DLs for 365 days)	DLs	2	730	217	158410.00
	Maintenance of camp huts, implements, ring/tube-well, upkeepment of plantation, signboard, documentation, upkeepment of records.	L.S.	-	-	-	10000.00
	Supervision cost	L.S.	-		-	10000.00
	Contingency @ 15% over previous year	L.S.				5750.00
	Sub-total					310888.00

G	4th YEAR MAINTENANCE					@ Rs. 239/DL
	4 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	60	480	239	114720.00
	15% vacancy filling by 2 years old seedlings from nursery @ 6 DLs/ha	DLs	6	48	239	11472.00
	Upkeepment of plantation & making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	40	239	9560.00
	Maintenance & protection of field nursery (1 DL for 365 days) & watch & ward for the plantation area (1 DLs for 365 days)	DLs	2	730	239	174470.00
	Maintenance of camp huts, implements, ring/tube-well, upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.	-	-	-	10000.00
	Supervision cost	L.S.				10000.00
	Contingency @ 15% over previous year	L.S.				6612.00
	Sub-total					336834.00
H	5th YEAR MAINTENANCE					@ Rs. 263/DL
	Climber cutting, weeding and other silvicultural works & fire protection works @ 8 DLs/ha	DLs	8	64	263	16832.00
	10% vacancy filling by 2 years old seedlings from nursery @ 4 DLs/ha	DLs	4	32	263	8416.00
	Maintenance & fencing post replacement @ 3% initial cost of material			0.03	1002960	30089.00
	Upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	32	263	8416.00
	Watch & ward for the plantation area (2 DLs for 365 days)	DLs	2	730	263	191990.00
	Maintenance of camp hut, implements, ring/tube -well, upkeepment of plantation, signboard, documentation and upkeepment of records etc.	L.S.	-	-	-	10000.00
	Supervision cost	L.S.				10000.00
	Contingency @ 15% over previous year	L.S.				7604.00
	Sub-total					283347.00

I	6th YEAR MAINTENANCE					@ Rs. 289/DL
	Climber cutting, other silvicultural works & fire protection works @ 15 DLs/ha	DLs	15	120	289	34680.00
	Upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	32	289	9248.00
	Watch & ward for the plantation area (2 DLs for 365 days)	DLs	2	730	289	210970.00
	Maintenance of camp hut, implements, ring/tube-well, upkeepment of plantation, signboard, documentation and upkeepment of records etc.	L.S.	-	-	-	10000.00
	Supervision cost	L.S.				10000.00
	Contingency @ 15% over previous year	L.S.				8745.00
Sub-total						283643.00
J	7th YEAR MAINTENANCE					@ Rs. 318/DL
	Climber cutting, other silvicultural works & fire protection works @ 12 DLs/ha	DLs	12	96	318	30528.00
	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	40	318	12720.00
	Maintenance of camp hut, implements, ring/tube-well, upkeepment of plantation, signboard, documentation and upkeepment of records etc.	L.S.	-	-	-	10000.00
	Supervision cost	L.S.	-	-	-	10000.00
	Contingency @ 15% over previous year	L.S.				10057.00
Sub-total						73305.00
K	8th YEAR MAINTENANCE					@ Rs. 350/DL
	Climber cutting, other silvicultural works & fire protection works @ 8 DLs/ha	DLs	8	64	350	22400.00
	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	40	350	14000.00

	Maintenance of camp hut, implements, ring/tube-well, upkeepment of plantation, signboard, documentation and upkeepment of records etc.	L.S.	-	-	-	10000.00
	Supervision cost	L.S.	-	-	-	10000.00
	Contingency @ 15% over previous year	L.S.	-	-	-	11566.00
	Sub-total					67966.00
L	9th YEAR MAINTENANCE @ Rs. 385/DL					
	Climber cutting, other silvicultural works & fire protection works @ 7 DLs/ha	DLs	7	56	385	21560.00
	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	40	385	15400.00
	Maintenance of camp hut, implements, ring/tube-well, upkeepment of plantation, signboard, documentation and upkeepment of records etc.	L.S.	-	-	-	10000.00
	Supervision cost	L.S.	-	-	-	10000.00
	Contingency @ 15% over previous year	L.S.	-	-	-	13301.00
	Sub-total					70261.00
M	10th YEAR MAINTENANCE @ Rs. 423/DL					
	Climber cutting, other silvicultural works & fire protection works @ 6 DLs/ha	DLs	6	48	423	20304.00
	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	32	423	13536.00
	Maintenance of camp hut, implements, ring/tube-well, upkeepment of plantation, signboard, documentation and upkeepment of records etc.	L.S.	-	-	-	10000.00
	Supervision cost	L.S.	-	-	-	10000.00
	Contingency @ 15% over previous year	L.S.	-	-	-	15296.00
	Sub-total					69136.00

ABSTRACT

Sl No.	Items	Amount(in Rs.)
1	A. Erection of fencing	1002960.00
	B. Infrastructure in plantation area.	455000.00
	C. Advance work.	279800.00
	D. 1 st year creation and maintenance.	340390.00
	Sub - total	2078150.00
	Overhead cost @50% of the total estimated cost	1039075.00
	Total	3117225.00
2	E. 2 nd year maintenance	310650.00
	Overhead cost @50% of the total estimated cost	155325.00
	Total	465975.00
3	F. 3 rd year maintenance	310888.00
	Overhead cost @50% of the total estimated cost	155444.00
	Total	466332.00
4	G. 4 th year maintenance	336834.00
	Overhead cost @50% of the total estimated cost	168417.00
	Total	505251.00
5	H. 5 th year maintenance	283347.00
	Overhead cost @50% of the total estimated cost	141674.00
	Total	425021.00
6	I. 6 th year maintenance	283643.00
	Overhead cost @50% of the total estimated cost	141822.00
	Total	425465.00
7	J. 7 th year maintenance	73305.00
	Overhead cost @50% of the total estimated cost	36652.00
	Total	109957.00
8	K. 8 th year maintenance	67966.00
	Overhead cost @50% of the total estimated cost	33983.00
	Total	101949.00
9	L. 9 th year maintenance	70261.00
	Overhead cost @50% of the total estimated cost	35131.00
	Total	105392.00
6	M. 10 th year maintenance	69136.00
	Overhead cost @50% of the total estimated cost	34568.00
	Total	103704.00
	Grand total	5826271.00

(Rupees Fifty eight lakh twenty six thousand two hundred seventy one) only

Submitted



Divisional Forest Officer,
Doomdooma Division,
Domdooma