

**Norms for 3.5 hect. Compensatory Afforestation plantation in Kotha Reserve Forest under Jagun Range of Digboi Forest
Division against the diversion proposal of KSAK by ONGC**

Area (ha.)	=	3.5
Spacing (m x m)	=	2 x 2
Number of Saplings/ha	=	2500
Length of Fence (RM)	=	870
Wage rate (Rs.)	=	273
Increase in wage rate for subsequent years by a factor	=	1.1
Appreciation of material costs by a factor	=	1.1

Sl. No.	Particulars of Works	Unit	Qty./Ha.	Total Qty.	Rate/Unit	Amount (Rs.)
A	ERECTION OF FENCING					
	(a) Cost of full chain link Goat proof fencing (4' ht with 10 guage 3" dia link) with 3 strand barbed wire (one strand below the chain link and two strand above the chain link) to be fitted on pre-cast RCC pillars of specific specification and size as per details specification attached at 2.5 m apart, including transportation, fitting and fixing for 870 RM @ Rs. 1016/RM as per estimate	RMs		870	1016	883920
	Sub Total					883920
B	INFRASTRUCTURE IN PLANTATION AREA					
	Cost of tools & implements	Nos.		1	5000	5000
	Sub Total					5000
C	ADVANCE WORK					
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha.	DLs	20	70	273	19110
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ha. @ Rs. 8/- per polypot	Nos.	2500	8750	8	70000
	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/stump	Nos.	625	2187.5	8	17500
	b) 20% mortality expected during 2nd year (to be planted in the field during the 3rd year) i.e. 500 seedlings/ha @ Rs. 8/- per polypot/stump	Nos.	500	1750	8	14000
	Sub Total					120610
D	CREATION & 1ST YEAR MAINTENANCE					
	Soil working, carriage of stamps, 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	140	273	38220
	5 weeding, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	315	273	85995
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	DLs	1	365	273	99645
	Contingency	LS				7000
	Sub Total					230860
E	2ND YEAR MAINTENANCE					
	5 weeding, fire protection works @ 10 DLs/ha/weeding	DLs	50	175	300	52500
	25% vacancy filling by 1 year old seedlings from nursery @ 10 DLs/ha	DLs	10	35	300	10500
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	DLs	1	365	300	109500
	Contingency	LS				7000
	Sub Total					179500
F	3RD YEAR MAINTENANCE					
	4 weedings, fire protection works @ 8 DLs/ha/weeding	DLs	32	112	330	36960
	20% Vacancy filling by 2 year old seedlings from nursery @ 8 DLs/ha	DLs	8	28	330	9240
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	DLs	1	365	330	120450
	Contingency	LS				7000
	Sub Total					173650
G	4TH YEAR MAINTENANCE					
	4 weeding, fire protection works @ 8 DLs/ha/weeding	DLs	32	112	363	40656
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	DLs	1	365	363	132495
	Contingency	LS				7000
	Sub Total					180151
H	5TH YEAR MAINTENANCE					
	Climber cutting, weeding & other silvicultural works and fire protection works @ 5 DLs/ha	DLs	5	17.5	399	6982.5
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	DLs	1	365	399	145635
	Contingency	LS				7000
	Sub Total					159617.5

I	6TH YEAR MAINTENANCE				
	Climber cutting, weeding & other silvicultural works and fire protection works @ 5 DLs/ha	DLs	5	17.5	439
	Contingency	LS			7000
	Sub Total				14682.5
J	7TH YEAR MAINTENANCE				
	Climber cutting, weeding & other silvicultural works and fire protection works @ 5 DLs/ha	DLs	5	17.5	483
	Contingency	LS			7000
	Sub Total				15452.5
K	8TH YEAR MAINTENANCE				
	Climber cutting, weeding & other silvicultural works and fire protection works @ 5 DLs/ha	DLs	5	17.5	531
	Contingency	LS			7000
	Sub Total				16292.5
L	9TH YEAR MAINTENANCE				
	Climber cutting, weeding & other silvicultural works and fire protection works @ 5 DLs/ha	DLs	5	17.5	584
	Contingency	LS			7000
	Sub Total				17220
M	10TH YEAR MAINTENANCE				
	Climber cutting, weeding & other silvicultural works and fire protection works @ 5 DLs/ha	DLs	5	17.5	642
	Contingency	LS			7000
	Sub Total				18235
Total					2015191
50% Overhead Cost					1007596
Grand Total					3022787

(Rupees Thirty lakh twenty two thousand seven hundred eighty seven) only

Particulars of works	Amount (Rs.)
Erection of fencing	883920
Infrastructure in plantation area	5000
Advance work	120610
Creation & 1st year maintenance	230860
2nd year maintenance	179500
3rd year maintenance	173650
4th year maintenance	180151
5th year maintenance	159618
6th year maintenance	14683
7th year maintenance	15453
8th year maintenance	16293
9th year maintenance	17220
10th year maintenance	18235
TOTAL	2015191
Rate per hect. plantation	575769

Technically Approved by

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I/c Jagun Range

Forest Range Officer

Jagun Range