

SCHEME FOR
COMPENSATORY AFFROESTATION

IN LIEU OF DIVERSION OF 4.495 HA FOREST LAND
AGAINST M/S ODISHA CEMENT PLANT (A UNIT OF SHREE
CEMENT LTD.) CHANDRABALISHYAMPUR UNDER ATHGARH
TAHASIL, ATHGARH RANGE OF ATHGARH FOREST DIVISION
DISTRICT- CUTTACK IN THE STATE OF ODISHA.

NON FOREST PVT. LAND SELECTED FOR
COMPENSATORY AFFORESTATION OVER 5.1 HA IN
VILLAGE KHANDUALI UNDER KHUNTUNI RANGE,
OF ATHGARH FOREST DIVISION.

PREPARED BY

DIVISIONAL FOREST OFFICER
ATAGARH FOREST DIVISION
Divisional Forest Officer
Athgarh Division

COST NORM FOR BLOCK PLANTATION @ 1000 NOS. PLANTS PER HA.

WAGE RATE @ 298/- PER MANDAYS.

SL. No.	Item of Work	Period of Execution	Mandays	Labour Cost	Material Cost	Total
1	2	3	4	5	6	7
0TH YEAR (ADVANCE WORK) PRE-PLANTING OPERATION						
1	Survey, Demarcation and Pillar Posting	Nov. / Dec.	2	596.00	0.00	596.00
2	Site Preparation	Nov. / Dec.	8	2384.00	0.00	2384.00
3	Alignment and stacking of pits.	Jan/ Feb	2	596.00	0.00	596.00
4	Digging of Pits (30 Cm cube)	Feb / Mar	25	7450.00	0.00	7450.00
5	Nursery Cost (₹.8.67 in 0th Year + ₹.3.76 in 1st Year) for 1760 nos. seedlings.	Jan - March	27.5	8195.00	1837.00	10032.00
	Total :		64.5	19221.00	1837.00	21058.00
6	Monitoring and supervision charges 5 % of the total cost.			0.00	0.00	1053.00
	Grand Total :		64.5	19221.00	1837.00	22111.00
1ST YEAR MAINTENANCE (PLANTING OPERATION)						
1	Nursery Cost (Balance ₹.3.76 for 1760 nos. seedlings)	Apr. - June	13	3874.00	496.00	4370.00
2	Fencing for an average of 250 mtr / Ha @ ₹.76.80 per mtr for Bamboo twings and bamboo thorn fencing	May / June	38	11324.00	8560.00	19884.00
3	Carriage and Planting, Casualty Replacement and application of insecticide, manure etc.	Jul / Aug.	13	3874.00	0.00	3874.00
4	Cost of Insecticide and Fertilizer					
a.	NPK @ 50 gms./ Plant as basal dose = 80 Kg. @ ₹.24/- per Kg = ₹.1920.00	Jul / Aug.	0	0.00	1200.00	1200.00
b.	Urea @ 70 gms. / Plant in tow subsequent doses @ ₹.6/- per Kg = ₹.672.00		0	0.00	420.00	420.00
c.	Granular insecticide (Themet, Forate etc) @ 5 gms / Plant @ ₹.80/- per Kg. = ₹.640.00		0	0.00	400.00	400.00
5	Vegetative Fencing					
a.	For average of 126 mtr. / Ha. ₹.76.19 per mtr for bamboo twings and bamboo throne fencing (L:M - 40:60)	Jun / Sept.	19	5662.00	4279.94	9941.94

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SL. No.	Item of Work	Period of Execution	Mandays	Labour Cost	Material Cost	Total
1	2	3	4	5	6	7
b.	To be strengthened by planting and other seedlings in two rows. Bamboo to be planted 2 mtr. Spacing in staggered manner in the two rows and the rest of spacing along the two rows, the rows being 3 mtr apart. Thus 500 plants (125 Bamboo and 375 others) to be planted in two rows to cover 126 mtr of periphery / Ha by the vegetative fence (Bamboo seedlings @ 12.43 per seedlings x 125 = 1553.75, Agave seedlings @ 4.90 per seedlings x 375 = 1837.50)	Jun / Sept.	11	3278.00	3391.25	6669.25
6	1st Weeding (Compete Weeding)	Aug. / Sep.	5	1490.00	0.00	1490.00
7	Manuring (Urea 35 gms.)	Aug. / Sep.	4	1192.00	0.00	1192.00
8	2nd Weeding (Compete Weeding)	Sep / Oct.	4	1192.00	0.00	1192.00
9	Soil working (50 cms. Radius around plants) & manuring Urea 35 gms. Per plant.	Sep / Oct.	5	1490.00	0.00	1490.00
10	Soil Conservation Measures in the form of staggered treanches of size 2m x 0.5m x 0.5 m @ 30 nos. per Ha.	Sept./ Oct.	10	2980.00	0.00	2980.00
11	Fire Line tracing and inspection path.	Feb / Mar	3	894.00	0.00	894.00
12	Watch & Ward.	Aug / Mar	7	2086.00	0.00	2086.00
	Total :		132	39336.00	18747.19	58083.19
13	Monitoring and supervision charges 5 % of the total cost.			0.00	0.00	2904.00
	Grand Total :		132	39336.00	18747.19	60987.19
2ND YEAR MAINTENANCE						
1	Casualty Replacement (10%) with Nursery cost	Jul / Aug.	2.5	745.00	1036.00	1781.00
2	Weeding (Complete Weeding)	Sept./ Oct.	4	1192.00	0.00	1192.00
3	Cost of Fertilizer (NPK @ 70 gms / plant (₹.24/- per Kg & insecticide @ 5 gms / plant for 160 nos. plants 800 gms @ ₹.80/- per Kg.)	Sept./ Oct.	0	0.00	1720.00	1720.00
4	Repair and Maintenance of Bamboo fence including material cost.	May / June	20	5960.00	5080.00	11040.00
5	Soil Working (50 cms. Radius around plants)	Oct/ Nov.	5	1490.00	0.00	1490.00
6	Application of Fertilizer and Insecticide	Sept./ Oct.	2.5	745.00	0.00	745.00
7	Fire Line tracing and inspection path.	Feb / Mar	3	894.00	0.00	894.00
8	Watch & Ward.	Apr - Mar.	15	4470.00	0.00	4470.00
	Total :		52	15496.00	7836.00	23332.00
9	Monitoring and supervision charges 5 % of the total cost.			0.00	0.00	1167.00
	Grand Total :		52	15496.00	7836.00	24499.00

SL. No.	Item of Work	Period of Execution	Mandays	Labour Cost	Material Cost	Total
1	2	3	4	5	6	7
3RD YEAR MAINTENANCE						
1	Weeding and application of Fertilizer	Aug. / Sep.	5	1490.00	0.00	1490.00
2	Cost of Fertilizer (NPK @ 50 gms. / Plant) @ ₹.24/- per Kg.	0	0	0.00	1200.00	1200.00
3	Repair and Maintenance of Bamboo fence including material cost.	May / June	20	5960.00	1000.00	6960.00
4	Soil working (50 cms. Radius around plants) and application of Fertilizer	Oct/ Nov.	5	1490.00	0.00	1490.00
4	Fire line tracing (2mtr wide fire line over 400 mtr length) & cultural operation.	Feb / Mar	3	894.00	0.00	894.00
5	Watch & Ward.	Apr - Mar.	15	4470.00	0	4470.00
	Total :		48	14304.00	2200.00	16504.00
6	Monitoring and supervision charges 5 % of the total cost.		0	0.00	0.00	825.00
	Grand Total :		48	14304.00	2200.00	17329.00
4TH YEAR MAINTENANCE						
1	Fire line tracing (2m wide fire line over 400 m length) and Cultural Operation	Feb / Mar	3	894.00	0.00	894.00
2	Watch & Ward.	Apr - Mar.	15	4470.00	0.00	4470.00
	Total :		18	5364.00	0.00	5364.00
3	Monitoring and supervision charges 5 % of the total cost.		0	0.00	0.00	268.00
	Grand Total :		18	5364.00	0.00	5632.00
5TH YEAR MAINTENANCE						
1	Fire line tracing (2m wide fire line over 400 m length) and Cultural Operation	Feb / Mar	3	894.00	0.00	894.00
2	Watch & Ward.	Apr - Mar.	15	4470.00	0.00	4470.00
	Total :		18	5364.00	0.00	5364.00
3	Monitoring and supervision charges 5 % of the total cost.		0	0.00	0.00	268.00
	Grand Total :		18	5364.00	0.00	5632.00
6TH YEAR MAINTENANCE						
1	Fire line tracing (2m wide fire line over 400 m length) and Cultural Operation	Feb / Mar	3	894.00	0.00	894.00
2	Watch & Ward.	Apr - Mar.	15	4470.00	0.00	4470.00
	Total :		18	5364.00	0.00	5364.00
3	Monitoring and supervision charges 5 % of the total cost.		0	0.00	0.00	268.00
	Grand Total :		18	5364.00	0.00	5632.00

SL. No.	Item of Work	Period of Execution	Mandays	Labour Cost	Material Cost	Total
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7TH YEAR MAINTENANCE						
1	Fire line tracing (2m wide fire line over 400 m length) and Cultural Operation	Feb / Mar	3	894.00	0.00	894.00
2	Watch & Ward.	Apr - Mar.	15	4470.00	0.00	4470.00
	Total :		18	5364.00	0.00	5364.00
3	Monitoring and supervision charges 5 % of the total cost.		0	0.00	0.00	268.00
	Grand Total :		18	5364.00	0.00	5632.00
8TH YEAR MAINTENANCE						
1	Fire line tracing (2m wide fire line over 400 m length) and Cultural Operation	Feb / Mar	3	894.00	0.00	894.00
2	Watch & Ward.	Apr - Mar.	15	4470.00	0.00	4470.00
	Total :		18	5364.00	0.00	5364.00
3	Monitoring and supervision charges 5 % of the total cost.		0	0.00	0.00	268.00
	Grand Total :		18	5364.00	0.00	5632.00
9TH YEAR MAINTENANCE						
1	Fire line tracing (2m wide fire line over 400 m length) and Cultural Operation	Feb / Mar	3	894.00	0.00	894.00
2	Watch & Ward.	Apr - Mar.	15	4470.00	0.00	4470.00
	Total :		18	5364.00	0.00	5364.00
3	Monitoring and supervision charges 5 % of the total cost.		0	0.00	0.00	268.00
	Grand Total :		18	5364.00	0.00	5632.00
10TH YEAR MAINTENANCE						
1	Fire line tracing (2m wide fire line over 400 m length) and Cultural Operation	Feb / Mar	3	894.00	0.00	894.00
2	Watch & Ward.	Apr - Mar.	15	4470.00	0.00	4470.00
	Total :		18	5364.00	0.00	5364.00
3	Monitoring and supervision charges 5 % of the total cost.		0	0.00	0.00	268.00
	Grand Total :		18	5364.00	0.00	5632.00

ABSTRACT OF 1 HA BLOCK PLANTATION @ 1000 PLANTS / HA.					
Year of Operation	Man Days	Labour Cost	Material Cost	Monitoring & Supervision Cost	Total
0th Year	64.5	19221.00	1837.00	1053.00	22111.00
1st Year Maintenance	132	39336.00	18747.19	2904.00	60987.19
2nd Year Maintenance	52	15496.00	7836.00	1167.00	24499.00
3rd Year Maintenance	48	14304.00	2200.00	825.00	17329.00
4th Year Maintenance	18	5364.00	0.00	268.00	5632.00
5th Year Maintenance	18	5364.00	0.00	268.00	5632.00
6th Year Maintenance	18	5364.00	0.00	268.00	5632.00
7th Year Maintenance	18	5364.00	0.00	268.00	5632.00
8th Year Maintenance	18	5364.00	0.00	268.00	5632.00
9th Year Maintenance	18	5364.00	0.00	268.00	5632.00
10th Year Maintenance	18	5364.00	0.00	268.00	5632.00
Total :	422.5	125905.00	30620.19	7825.00	164350.19

ESTIMATED COST FOR 5.1 HA FOR IDENTIFIED SITE AT VILLAGE KHANDUALI					
Desription	Mandays	Labour Cost	Material Cost	Monitoring & Supervision Cost	Total
1	2	3	4	5	6
Compensatory Afforestation over 5.1 Ha.	2154.75	642115.5	156162.969	39907.5	838185.97

(Rupees Eight lakh, Thirty eight thousand, One hundred Eighty Five and Ninety Seven paisa) Only.

Divisional Forest Officer,
Athgarh Division
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