

**SCHEME FOR COMPENSATORY
AFFORESTATION OVER AN AREA OF 48.50
HA. IN DEGRADED FOREST LAND IN
BALIPASI RF OF SADANGI RANGE UNDER
DHENKANAL FOREST DIVISION.**

**AGAINST THE FOREST LAND USED BY-
EAST COAST RAILWAYS,
BHUBANESWAR.**

**FOR CONSTRUCTION OF 3RD & 4TH RAILWAY
LINE BETWEEN BUDHAPANKA-SALEGAON IN
THE STATE OF ODISHA UNDER DHENKANAL
FOREST DIVISION & ATHAGARH FOREST
DIVISION IN DHENKANAL & CUTTACK
DISTRICT.**

**DHENKANAL FOREST DIVISION
DHENKANAL**

COST NORM FOR BLOCK PLANTATION @ 1600 PLANTS/HA (6 MONTHS OLD SEEDLINGS) FOR SITE IDENTIFIED IN BALIPASI RE OVER AN AREA OF 48.50 HA. IN CURRENT WAGE RATE OF RS. 286.30 PER MANDAY.

Sl. No	Items of Work	Preferable period of execution	Labour in Mandays	Labour cost @ Rs 286.30/- per day	Material cost per hectare in Rs	Total cost per hectare in Rs.
1	2	3	4	5	6	7
0TH YEAR (ADVANCE WORK) PRE-PLANTING OPERATION						
1	Survey, demarcation and pillar posting	Nov/Dec	2	572.60	0	572.60
2	Site preparation	Nov/Dec	12	3435.60	0	3435.60
3	Alignment and stacking of pits	Jan/Feb	2	572.60	0	572.60
4	Digging of pits (30 cm cube)	Feb/Mar	40	11452	0	11452
5	Nursery cost (6 months old seedlings) part @ Rs.12.43/- seedling (Rs.8.67 in 0 th year + Rs.3.76 in 1 st year) for 1760 seedlings (1600+160)	Jan-Mar	44	12597.20	2939	15536.20
	Total		100	28630	2939	31569
6	Monitoring & Supervision charge 5% of the total cost					1578.45
	Grand Total		100	28630	2939	33147.45
1ST YEAR / PLANTING YEAR						
7	Nursery cost (6 months old seedling) balance @ Rs.3.76 for 1760 seedlings	Apr-June	21.5	6155.45	593	6748.45
8	For an average of 250 meters/ha @ Rs.76.80/- per meter for bamboo twigs and bamboo thorn fencing	May/June	38	10879.40	8560	19439.40
9	Carriage & planting, Casualty Replacement and application of insecticide, manure etc.	Jul/Aug	21	6012.30	0	6012.30
10	Cost of insecticide and fertilizer (a) NPK @ 50 gms/plant as basal dose =80kg/ha @ Rs.24/- per kg = Rs.1920.00/ha (b) Urea @ 70 gms/plant in two subsequent doses @ Rs.6/-per kg = Rs.672.00. (c) Granular insecticide (Themet, Forate etc.) @ 5gms/plant @ Rs.80/-per kg = Rs.640.00	July/August		0	3232	3232
11	1st weeding (complete weeding)	Aug/Sep	7	2004.10	0	2004.10
12	Manuring Urea 35 gm	Aug/Sep	5	1431.50	0	1431.50
13	2nd weeding (complete weeding)	Sep/Oct	5	1431.50	0	1431.50
14	Soil working (50 cms. Radius around plants) & manuring Urea 35 gms per plant	Sep/Oct	7	2004.10	0	2004.10
15	Soil conservation measures in the form of staggered trenches of size 2 m x 0.5 m x 0.5 m @ 30 nos per ha	Sep/Oct	10	2863	0	2863
16	Fire line tracing & inspection path	Feb/Mar	3	858.90	0	858.90
17	Watch & Ward	Aug-Mar	7	2004.10	0	2004.10
	Total		124.50	35644.35	12385	48029.35
18	Monitoring & Supervision charge 5% of the total cost					2401.50
	Grand Total		124.50	35644.35	12385	50430.85
2ND YEAR MAINTENANCE						
19	Casualty replacement (10%) with Nursery cost	Jul/Aug	4	1145.20	1988.80	3134
20	Weeding (complete weeding)	Sep/Oct	6	1717.80	0	1717.80
21	Cost of fertilizer (NPK @ 70 gms/plant) (Rs.24/-per kg & Insecticide @ 5 gms / plant for 160 plants 800 gms @ Rs.80/- per kg	Sep/Oct		0	2752	2752
22	Repair & maintenance of Bamboo fence including material cost	May/June	20	5726	5080	10806

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1	2	3	4	5	6	7
23	Soil working (50 cms. Radius around plans)	Oct/Nov	7	2004.10	0	2004.10
24	Application of fertilizer & insecticide	Sep/Oct	4	1145.20	0	1145.20
25	Fire line tracing (2 m. wide fire line over 400m long)	Feb/Mar	3	858.90	0	858.90
26	Watch & Ward	Apr-Mar	15	4294.50	0	4294.50
	Total		59	16891.70	9820.80	26712.50
27	Monitoring & Supervision charge 5% of the total cost					1335.63
	Grand Total		59	16891.70	9820.80	28048.13
3RD YEAR MAINTENANCE						
28	Weeding and application of fertilizer	Aug/Sep	7	2004.10	0	2004.10
29	Cost of fertilizer (NPK @ 50 gms/plant) Rs.24/- per kg			0	1920	1920
30	Repair and maintenance of Bamboo fence including material cost	May/June	20	5726	1000	6726
31	Soil working (50 cms. Radius around plant) & application of fertilizer	Oct/Nov	7	2004.10	0	2004.10
32	Fire line tracing (2 m. wide fire line over 400m (length) & cultural operation	Feb/Mar	3	858.90	0	858.90
33	Watch & Ward	Apr-Mar	15	4294.50	0	4294.50
	Total		52	14887.60	2920	17807.60
34	Monitoring & Supervision charge 5% of the total cost					890.38
	Grand Total		52	14887.60	2920	18697.98
4TH YEAR MAINTENANCE						
35	Fire line tracing (2 m. wide fire line over 400m (length) & cultural operation	Feb/Mar	3	858.90	0	858.90
36	Watch & Ward	Apr-Mar	15	4294.50	0	4294.50
	Total		18	5153.40	0	5153.40
37	Monitoring & Supervision charge 5% of the total cost					257.67
	Grand Total		18	5153.40	0	5411.07
5TH YEAR MAINTENANCE						
38	Fire line tracing (2 m. wide fire line over 400m (length) & cultural operation	Feb/Mar	3	858.90	0	858.90
39	Watch & Ward	Apr-Mar	15	4294.50	0	4294.50
	Total		18	5153.40	0	5153.40
40	Monitoring & Supervision charge 5% of the total cost					257.67
	Grand Total		18	5153.40	0	5411.07
6TH YEAR MAINTENANCE						
41	Fire line tracing (2 m. wide fire line over 400m (length) & cultural operation	Feb/Mar	3	858.90	0	858.90
42	Watch & Ward	Apr-Mar	15	4294.50	0	4294.50
	Total		18	5153.40	0	5153.40
43	Monitoring & Supervision charge 5% of the total cost					257.67
	Grand Total		18	5153.40	0	5411.07

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7TH YEAR MAINTENANCE						
44	Fire line tracing (2 m. wide fire line over 400m (length) & cultural operation	Feb/Mar	3	858.90	0	858.90
45	Watch & Ward	Apr-Mar	15	4294.50	0	4294.50
	Total		18	5153.40	0	5153.40
46	Monitoring & Supervision charge 5% of the total cost					257.67
	Grand Total		18	5153.40	0	5411.07
8TH YEAR MAINTENANCE						
47	Fire line tracing (2 m. wide fire line over 400m (length) & cultural operation	Feb/Mar	3	858.90	0	858.90
48	Watch & Ward	Apr-Mar	15	4294.50	0	4294.50
	Total		18	5153.40	0	5153.40
49	Monitoring & Supervision charge 5% of the total cost					257.67
	Grand Total		18	5153.40	0	5411.07
9TH YEAR MAINTENANCE						
50	Fire line tracing (2 m. wide fire line over 400m (length) & cultural operation	Feb/Mar	3	858.90	0	858.90
51	Watch & Ward	Apr-Mar	15	4294.50	0	4294.50
	Total		18	5153.40	0	5153.40
52	Monitoring & Supervision charge 5% of the total cost					257.67
	Grand Total		18	5153.40	0	5411.07
10TH YEAR MAINTENANCE						
50	Fire line tracing (2 m. wide fire line over 400m (length) & cultural operation	Feb/Mar	3	858.90	0	858.90
51	Watch & Ward	Apr-Mar	15	4294.50	0	4294.50
	Total		18	5153.40	0	5153.40
52	Monitoring & Supervision charge 5% of the total cost					257.67
	Grand Total		18	5153.40	0	5411.07

TOTAL FINANCIAL OUTLAY OF THE SCHEME**A. Cost of Plantation to be deposited in State CAMPA fund by User Agency****ABSTARCT**

Sl. No	Year	No. Person Day	Labour Cost @ Rs.286.30/- per day	Material Cost (Rs)	Monitoring & Supervision charge 5% of the total cost	Total Cost (Rs.)
1	0th Year	100	28630	2939	1578.45	32486
2	1st Year	124.5	35644.35	12358	2401.50	49607
3	2nd Year	59	16891.70	9820.80	1335.63	27658
4	3rd Year	52	14877.60	2920	890.38	18354
5	4th Year	18	5153.40	0	257.67	5292
6	5th Year	18	5153.40	0	257.67	5292
7	6th Year	18	5153.40	0	257.67	5292
8	7th Year	18	5153.40	0	257.67	5292
9	8th Year	18	5153.40	0	257.67	5292
10	9th Year	18	5153.40	0	257.67	5292
11	10th Year	18	5153.40	0	257.67	5292
		461.5	132117.45	28037.80	8009.65	1,68,164.90 or 1,68,165.00
	TOTAL	168165 × 48.50 Ha.				81,56,002.50 or 81,56,003.00
12	Cost of vegetative fencing over 7.36 km or 7360 mtr around the Block plantation in Balipasi RF @ 128/- per meter	128 × 7360				9,42,080.00
13	Soil Conservation Measures					
	(i) LBCD of size 10'×10'×5 for 20 nos. per ha over 48.50 ha @ Rs.8,233.73 per LBCD	8233.73 × 20 × 48.50				79,86,718.00
	(ii) Staggered tranches of size 2.5 mt × 0.5 mt. × 0.5 mt for 300 nos. per ha @ Rs.56/- each over 48.50 ha.	56 × 300 × 48.50				8,14,800.00
					Total	1,78,99,601.00
14	15 % of total plantation cost towards EPA / Incentive to VSS					26,84,940.00
					Total	2,05,84,541.00
15	Add Escalation Cost (20%)					41,16,908.00
					Grand Total	2,47,01,449.00 or 2,47,01,500.00

(Rupees Two Crore Forty Seven Lakh One Thousand Five Hundred) only.


 Divisional Forest Officer,
 Dhenkanal Division

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