

Site Specific scheme for
Compensatory Afforestation over
an area of Ac.158.02 (63.949 ha.)
Govt.-non forest land identified in
village RAHADPUR under DHARMASALA TEHSIL
of Jajpur District under Cuttack Forest Division against
proposal for *diversion of 64.119 ha.* forest land for
Kaliapani Chromite Mines M/S BALASORE ALLOYS LTD.

Divisional Forest Officer
Cuttack Forest Division

SCHEME FOR COMPENSATORY AFFORESTATION AGAINST PROPOSED DIVERSION OF 64.119 HECTARE FOREST LAND IN MINING L AREA OF KALIAPANI CHROMITE MINES.

1. Introduction:

A mining lease over 64.463 hectares for Chromite was granted to M/s Balasore Alloys Ltd by the Government of Odisha, Department of Steel and Mines vide order no 5279/SM dated 22-5-2000 and lease has been executed on 15-07-2000 for 30 years w.e.f. 17-07-2000 over an area of 64.463 ha. Mining Lease area does not involves any Forest land. Subsequently it has been noticed by the authorities that the part of lease area (64.119ha) was classified as Forest kisam as on 25.10.1980 and it is required to obtain approval from Govt. of India under Provisions of The Forest (Conservation) Act, 1980. The User Agency has filed application for diversion of entire Forest land 64.119 ha coming within ML area i.e. 64.463 ha. Equivalent quantum of Govt. Non- Forest land against the forest land so involved excluding safety zone measuring 0.17 ha has been identified by the user agency for raising Compensatory Afforestation as required by statutory provisions of Forest (Conservation) Act 1980.

2. Location of Non Forest Land Selected:

The required non- Forest land has been identified at village: Rahadpur, Tahasil: Dharmasala, District: Jajpur. The selected land has been allotted by the Collector, Jajpur District vide his letter No.1615 dated 04.04.2016. The detail land schedule is given below.

Table No-1

Sl.No	Khata No	Plot No	Area (in Acre) as per RoR	Name of Tenants	Kisam	Area found suitable for Compensatory afforestation.(in Acre)(After Joint Verification)
1	2	3	4	5	6	7
1	235	1	529.75	A A A	Parbat	158.02
TOTAL AREA			529.75			158.02
						or 63.949 hectare

NB: AAA (Abada Ajogya Anabadi)

The land allotted for Compensatory Afforestation against proposed diversion of Forest Land at Kaliapani Chromite Mines is about 50 km distance from the project site and comes under Dalijoda Range of Cuttack Division. The Mining Project as well as the Compensatory Afforestation land so identified are in the same district.

3. Approach to the Site:

The site is approachable by Paradeep–Daitary Express High Way. It is situated at a distance of 30 kms from Chandikhol in Northern direction (Chandikhol-Kalinganagar direction) west from Barada Chhak. It comes under Survey of India Topo Sheet no 73L/1 (F45U1).

The GPS Co-ordinate of cardinal points of the area is as given at Table no-2

Table No-2

CO-ORDINATES OF C.A.LAND PILLARS		
PILLAR NO	LONGITUDE	LATITUDE
1	E086°01'21.35"	N20°45'46.80"
2	E086°01'25.04"	N20°45'53.58"
3	E086°01'32.69"	N20°45'54.21"
4	E086°01'35.37"	N20°46'04.26"
5	E086°01'31.83"	N20°46'06.43"
6	E086°01'32.26"	N20°46'08.32"
7	E086°01'34.52"	N20°46'07.87"
8	E086°01'36.40"	N20°46'09.34"
9	E086°01'42.36"	N20°46'22.89"
10	E086°01'44.58"	N20°46'25.13"
11	E086°01'45.38"	N20°46'25.51"
12	E086°01'45.84"	N20°46'26.90"
13	E086°01'45.51"	N20°46'30.42"
14	E086°01'44.05"	N20°46'31.67"
15	E086°01'43.71"	N20°46'32.95"
16	E086°01'43.56"	N20°46'34.59"
17	E086°01'30.55"	N20°46'42.07"
18	E086°01'29.18"	N20°46'40.45"
19	E086°01'24.98"	N20°46'35.76"
20	E086°01'22.97"	N20°46'33.24"
21	E086°01'20.69"	N20°46'30.21"
22	E086°01'24.31"	N20°46'18.49"
23	E086°01'25.88"	N20°46'13.32"

24	E086°01'27.95"	N20°46'09.96"
25	E086°01'28.17"	N20°46'07.93"
26	E086°01'27.86"	N20°46'05.39"
27	E086°01'26.96"	N20°46'03.80"
28	E086°01'24.95"	N20°46'01.33"
29	E086°01'24.08"	N20°46'00.62"
30	E086°01'22.70"	N20°45'59.36"
31	E086°01'21.33"	N20°45'58.13"
32	E086°01'18.03"	N20°45'54.75"
33	E086°01'16.01"	N20°45'52.54"
34	E086°01'14.80"	N20°45'51.19"

4. Topography:

The selected site is partly rocky/hilly and no seasonal nallas also exist. There is a MIP project on the southern side and the selected site is coming within its catchment. The land is partly plain with gentle slope and partly with moderate slope.

4.1 Soil:

The soil is loamy and partly Black cotton soil. The soil depth is good to sustain vegetation at higher succession stage. Some portion of the land contains Rocky and morrum soil. In some portion the hills having more than 30% slope.

4.2 Climate:

The area experiences a tropical & humid climate with three distinct seasons i.e. prolonged summer, erratic rains and shorter winter. During summer the average temperature remains around 34-39°C. The highest temperature experienced in May is around 45°C, which cools down in June due to pre-monsoon rain. Annual rainfall is around 1200mm. Most of the precipitation is during July- August caused due to Cyclonic depression in Bay of Bengal. Winter is not severe and prominent. Average winter temperature remains around 18-23°C.

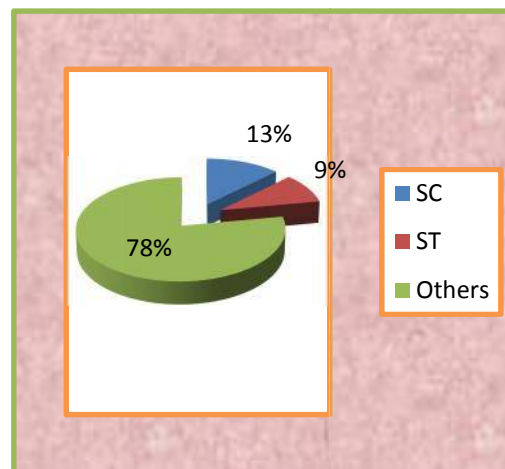
5. Habitation.

5.1 Population. The Village Rahadpur is surrounded by villages namely Dankari, Rampei, Kampira. The population of these villages is as given below.

Sl No	District	Name of Village	Total Population	SC population	ST Population	Male female ratio (Per 1000 male)
1	Jajpur	Rahadpur	236	32	0	1000:1024
2		Dankari	949	130	342	
3		Rampei	670	73	41	
4		Kampira	2439	307	25	
		Total	4294	542	408	

5.2 Presence of VSS / Joint Forest management.

Out of four villages located surrounding Rahadpur village, No villages has been covered under Joint Forest management Programme. Hence VSS is to be constituted in all four villages in order to mobilize peoples' participation of compensatory afforestation as well as to ensure protection & management of degraded forest area.



5.3 Existing Vegetation.

The site bears sporadic bushy growth here and there. The species available are mostly thorny and of dry locality.

The species seen are

- i. Dyospyrus melanoxylon(Kendu)
- ii. Zyziphus mauritiana (Jammu)
- iii. Acacia nilotica(Babul)
- iv. Clestanthus collinus(Koroda)
- v. Chloroxylon swietenia(Bheru)

5.4 Grazing.

The selected land encounters light to moderate biotic interference. Presence of Goat and cattle population in the vicinity villages are of good number. Grazing pressure remains throughout the year. SO measures requires to be taken for better protection and survival of plantation through vegetative fencing.

6. Planting methods.

6.1 Area of Plantation.

The area to be covered under compensatory Afforestation is 63.949 ha i.e. equivalent to forest land proposed for diversion. The Topography of the area is hard soil, rocky having more than 30% slope partly. Thereafter it is proposed for taking plantation in bald hill model over 63.949 ha for better management of plantation.

6.2 Plant density:

Block plantation with a plant density @1600 per hectare will be taken up. The approved cost norm for 1600 plants per hectare (Bald Hill Mode) with 10 year maintenance will be applicable to this scheme.

6.3 Survey, Demarcation & pillar posting.

The selected land has already been surveyed, Demarcated and RCC pillars of 4ft high has been posted. At the 0th year of execution these posted pillars are to be maintained if required. The area is to be sub divided in to sub plots for easy execution. These sub plots will be along the contour.

6.4 Choice of Species & Raising of Nursery.

Considering the terrain, Soil and Plant succession stage the following species will be planted up.

- i. *Azadirachta indica* (Neem)
- ii. *Pongamia pinnata* (Karanja)
- iii. *Emblica officinalis* (Amla)
- iv. *Cassia siamea* (San- Chakunada)
- v. *Syzygium cumini*. (Jamu)
- vi. *Acacia nilotica*. (Babul)
- vii. *Albizia mauritiana* (Bar koli / Ber)
- viii. *Terminalia belerica*, (Bahada)
- ix. *Terminalia tomentosa* (Asan)

Seedlings will be raised at a temporary nursery near to water body (Rani bandha) close to the planting site from December of the 0th year.

6.5 Alignment, stacking and Pitting.

Alignment and stacking will be taken up in the month of November - December. Pits of size 45 cm x 45cm x 45cm are to be dugout with a spacing of 2.5mt x 2.5mt @1600 plants per hectare. Alignment will be made along the contour strictly.

6.6 Planting

Plantation will be done after first regular shower of monsoon and to be completed within a week. Before planting, pits are to be prepared with mixture of half cubic-feet of Alluvial soil & farmyard manure. Basal dose of NPK/DAP fertilizer @50gm per plant to be given. Utmost care is to be taken to apply insecticides @5gm per pit. Casualty replacement is to be taken up during 1st year of plantation just after one month of planting. Planting should be taken up on rainy/cloudy days by adopting standard techniques of planting during mid June i.e after the onset of monsoon. 10% causality replacement is also suggested during 2nd Year.

Mulching

Mulching is an operation where cut vegetative materials are placed around planted seedlings covering the soil around it. This help soil climate to considerable extent from desiccation. Mulching effect soil temperature, help condensation and prevent soil erosion and loss of soil moisture through evaporation. Further, it is to be carried out at the time 2nd weeding. Weeds which have not lowered may be pulled out from around the planted seedlings and may be used as multches around the seedlings. Prunning of lower branches of the seedlings planted should be done in the third & subsequent years.

6.7 Weeding, Soil working and Application of Fertilizer.

Post planting operation is most vital in success of any planting programme. It is proposed to carry out weeding in two phases during first year. Preferably Strip Weeding along the contour will be taken up. One weeding and soil working has to be done in second year and third year of plantation. Application of 30gms of

NPK/DAP to be added to the soil per plant at the time of soil working during rains during 1st & 2nd year of plantation.

6.8 Application of insecticide:

To prevent infestation of planted seedlings with diseases due to influx of insects and pests into the area, it is required to apply insecticides like Phorate at the time of planting. Foliar spraying of insecticide may be done if badly necessary.

6.9 Fire line tracing and maintenance:

Tender seedlings planted are subject to damage by ground fire. It is required to protect the plantation and forest growth from fire hazard by tracing of fire lines. Boundary of the plantation and several internal lines need to be scrapped to a width of 2mtr during February-March. The cut back materials and dry leaves along with fire lines should be separated and dumped in pits outside the plantation area.

6.10 Watch and ward:

Watch and ward is necessary to protect the area from grazing, fire accident and other biotic interference. Necessary provisions have been made in the approved cost norm. Beyond 4th year watch & ward will be provided up to 10th Year including 0th year

6.11 Soil & Moisture Conservation.

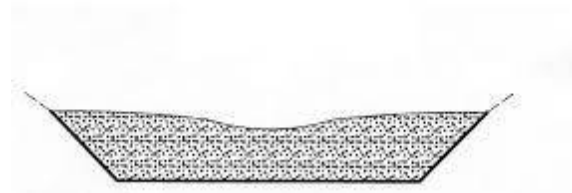
In order to enhance soil moisture, check run off and arrest carrying of silt in the flow water it is required to have staggered trenches (Size 2.5 m longx0.50 m width X0.5 m Deep) along the contour. Line to line interval is to be kept at 4m or as required considering the degree of slope of the land.

Besides the provisions available in the cost norm, as the tract is hilly and two rivulets are passing through it is suggested to have Loose Boulder Check Dam on the dry seasonal nallas to check soil erosion and saving the MIP project being silted up, situated near the site. (Depicted on the topo sheet.)



Plantation year/Preparatory operation (0th year)

- (i) Survey demarcation and pillar posting.
- (ii) Fencing
- (iii) Site preparation
- (iv) Digging of Pits
- (v) Soil & water conservation measures
- (vi) Raising of Nursery



2nd Year Operation

During the second year operation the following works will be taken up.

- (i) 1st weeding, causality replacement and application of chemical fertilizer.:-

Weeding will be taken up during 1st week of August. Soil working with 0.5 mtr. radius will be done along with the replacement of 10% causalities and application of chemical fertilizer@50 gms per plant in crow bar holes. precaution should be taken up for conservation of soil and water at the time of soil working.

- (ii) 2nd weeding : 2nd weeding will be done during 1st week of October.

Mulching of the plant sides will be done for conservation of moistures.

- (iii) Fire line tracing and Control: Fire tracing will be done during January & February like previous year.

- (iv) Watch & Ward: Daily wage watchers to be engaged for the whole year as like previous year.

3rd Year Operation

- (i) Weeding, soil working & maintenance of plantation: weeding and deep soil working will be taken up during July and August. Maintenance of fencing, SMC measure and maintenance of plantation will be done during April-March (Next year)
- (ii) Fire line tracing and Control: Fire tracing will be done during January & February like previous year.
- (iii) Watch and Ward: Daily wage watchers shall be engaged for the whole year as in previous years.

4th Year Operation

- (i) Maintenance of plantation: Repair and maintenance of fencing, SMC measure and maintenance of plantation with watch and ward will be taken up after April-March.
- (ii) Fire line tracing and Control: Fire tracing will be done during January & February like previous year.
- (iii) Watch and Ward: Daily wage watchers shall be engaged for the whole year as like previous years.

5th Year Operation

- (i) Maintenance of plantation: SMC measure and maintenance of plantation with watch and ward will be taken up after April-March.
- (ii) Fire line tracing and Control: Fire tracing will be done during January & February like previous year.
- (iii) Watch and Ward: Daily wage watchers shall be engaged for the whole year as like previous years.

6th Year Operation

- (i) Maintenance of plantation: SMC measure and maintenance of plantation with watch and ward will be taken up after April-March.

- (ii) Fire line tracing and Control: Fire tracing will be done during January & February like previous year.
- (iii) Watch and Ward: Daily wage watchers shall be engaged for the whole year as like previous years.

7th Year Operation

- (i) Maintenance of plantation: SMC measure and maintenance of plantation with watch and ward will be taken up after April-March.
- (ii) Fire line tracing and Control: Fire tracing will be done during January & February like previous year.
- (iii) Watch and Ward: Daily wage watchers shall be engaged for the whole year as like previous years.

8th Year Operation

- (i) Maintenance of plantation: SMC measure and maintenance of plantation with watch and ward will be taken up after April-March.
- (ii) Fire line tracing and Control: Fire tracing will be done during January & February like previous year.
- (iii) Watch and Ward: Daily wage watchers shall be engaged for the whole year as like previous years.

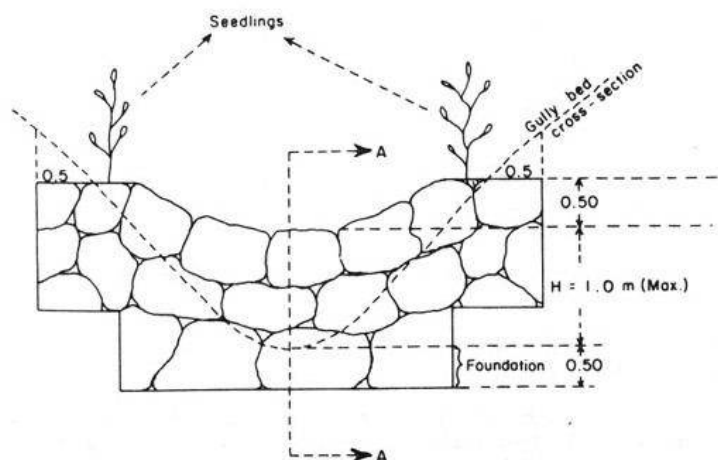
9th Year Operation

- (i) Maintenance of plantation: SMC measure and maintenance of plantation with watch and ward will be taken up after April-March.
- (ii) Fire line tracing and Control: Fire tracing will be done during January & February like previous year.
- (iii) Watch and Ward: Daily wage watchers shall be engaged for the whole year as like previous years.

10th Year Operation

- (i) Maintenance of plantation: SMC measure and maintenance of plantation with watch and ward will be taken up after April-March.
- (ii) Fire line tracing and Control: Fire tracing will be done during January & February like previous year.

- (iii) Watch and Ward: Daily wage watchers shall be engaged for the whole year as like previous years.



8. Monitoring and Execution

The Scheme will be executed by the Forest department and shall be monitored from time to time by responsible officers including DFO, Nursery, Plantation journal and other relevant documents shall be maintained as per the provision of the plantation manual. The area after mutation in favour of Forest Department will be declared as Protected Forest.

9. Total Cost of the Project.

The total cost of the project will be Rs 1,73,18,800.00 (Rupees One Crore Seventy Three Lacs Eighteen thousand Eight Hundred only) as detailed furnished here with which will be deposited after due approval of the Scheme.

**SCHEME FOR COMPENSATORY AFFORESTATION(BALD HILL PLANTATION) OVER AN
AREA OF 63.949 HA IN VILLAGE RAHADPUR UNDER DHARMASALA TAHSIL OF JAJPUR
DISTRICT PERTAINING TO DALIJORA RANGE OF CUTTACK FOREST DIVISION**

Name of the Scheme :-	COMPENSATORY AFFORESTATION (BALD HILL)
Name of the Project :-	Proposal for C.A. over 63.949 Ha of Govt. Non-Forest land in Rahadpur Village of Dharmasala Tahasil under Jajpur District in respect of diversion of Forest land over 64.119 Ha of Kaliapani Chromite Mines of Balasore Alloys Ltd.
Name of Implementing Agency:-	Divisional Forest Officer, Cuttack Forest Division

1. MODEL	BLOCK
2. NO. OF PLANTS PER HA.	1600
3. TOTAL AREA TO BE PLANTED(In HA.)	64
4. TOTAL NOS. OF PLANTS TO BE PLANTED	102318
5. SPACING TO BE ADOPTED	2.5MtrX2.5 Mtr
6. ONE HA.	126 RMT.
7. Wage Rate [Per MD]	200.00

Sl. No.	Item of Works	Period of execution	Mandays	Labour Cost @ Rs.200.00	Material cost	Total in Rs.
1	2	3	4	5	6	7
Preparatory Operation (0th Year)						
1	Survey & Demarcation	June	2	400.00	0.00	400.00
2	Fencing:-					
	(i) For an average of 126 meters /ha. @ Rs.56.57 per meter(Rs.8080 per ha.) for bamboo twigs and bamboo thorn fencing(L:M=40:60)	June-September	19	3800.00	4280.00	8080.00
	(ii) To be strengthened by planting of bamboo and other seedlings in two rows. Bamboo to be planted at 2 meter spacing in staggered manner on the two rows, and the rest of the species to be planted at 1/2 meter spacing along the two rows, the rows being 2 m apart. Thus 500 plant(125 bamboo & 375 others) to be planted in two rows to cover 126 meter of periphery by the vegetative fence(L:M=40:60).	June-September	11	2200.00	2493.00	4693.00

Sl. No.	Item of Works	Period of execution	Mandays	Labour Cost @ Rs.200.00	Material cost	Total in Rs.
1	2	3	4	5	6	7
3	Pitting (1600 plants per Ha.) each pit 45cm3 (40 X 3.2 = 128)	Nov-Dec	128	25600.00	0.00	25600.00
4	Soil and water conservation measures					
	(a) Staggered contour trench @300 per ha. (2.5mX0.5mX0.5m); gully plugging and drainage line treatment, digging of Percolation Pits @600 per ha in lieu of staggered trenches, half moon trench on the uphill side of planting pit (40X3.25=130)	Sept-November	130	26000.00	0.00	26000.00
	(b) Site clearance(8), alignment of contour line on ground(2), staking of planting pits, and contour trenches/percolation pits, check dam sites etc.	July-August	10	2000.00	0.00	2000.00
5	Raising of seedlings in poly bags(minimum 60 cm high)@Rs.9.45/ seedlings(Rs.6.67 in 0th year + Rs.2.78 in 1st year)(1760 saplings to be raised for 1 Ha. from October-March @11739/-	October-March			11739.00	11739.00
	Total of 0th Year :-		300	60000.00	18512.00	78512.00

Planting Operation (1st Year)

1	Cost of seedlings(balance) from April-June/July @2.78/- per seedling for 1760 seedlings = Rs.4893/-	April-July			4893.00	4893.00
2	Freshening of pits(64), filling with fertile soil & Farm Yard Manure (FYM)(24), vermicompost application and planting of 60 cm tall saplings including carriage of plants(21 MD)	June-July	109	21800.00	0.00	21800.00
3	Cost of Fertile Soil 0.25 Cft @Rs.8/- per Cft / FYM 0.25 Cft @Rs.15/- per cft Per Pit		0	0.00	9200.00	9200.00
4	Sowing of seeds on dugout earth of trench	June	6	1200.00	200.00	1400.00
5	Carriage (5 MD), Planting including Casualty Replacement (6 MD), Fertilizer (5 MD), 1st Weeding (7 MD), 2nd Weeding (5 MD), Soil working (7 MD)	July-August	36	7200.00	0.00	7200.00
6	Cost of Fertilizer & Insecticide (granular insecticides @ 5 gm per plant @Rs.80/- per Kg = 640/-, NPK 100 gms/plant in two doses @Rs.24/- per Kg = Rs.3840/-				4480.00	4480.00
7	Repair and maintenance of Bamboo fence including material cost	August - October	15	3000.00	2540.00	5540.00

Sl. No.	Item of Works	Period of execution	Mandays	Labour Cost @ Rs.200.00	Material cost	Total in Rs.
1	2	3	4	5	6	7
8	Maintenance of soil and Moisture Conservation measures (20% cost)	October-December	26	5200.00	0.00	5200.00
9	Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	30	6000.00	0.00	6000.00
10	Fire tracing and control, Display board construction, painting/writing and other miscellaneous cost	April-March	10	2000.00	360.00	2360.00
Total of 1st Year			232	46400.00	21673.00	68073.00

Maintenance Operation (2nd Year)

1	Casualty replacement(6 MD) including cost @Rs.9.45 per seedlings and its transportation	June-July	10	2000.00	1512.00	3512.00
2	Soil working(7 MD), 1 st weeding(6 MD), 2 nd weeding (6 MD) & fertiliser application(4 MD)	August - October	23	4600.00	0.00	4600.00
3	Cost of Fertilizer @ 50 gm NPK per plant @ Rs.24/- per Kg for 1600 plants = Rs.1920/-, Insecticide (granular insecticides @ 5 gm per plant for 160 nos of plants @Rs.80/- per Kg = 40/-				1984.00	1984.00
4	Repair and maintenance of Bamboo fence including material cost	August - October	15	3000.00	2540.00	5540.00
5	Maintenance of Soil and Moisture Conservation measures (20% cost)	August - October	26	5200.00	0.00	5200.00
6	Fire tracing and control, other miscellaneous cost	April-March	10	2000.00	0.00	2000.00
7	Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	30	6000.00	0.00	6000.00
Total of 2nd Year:-			114	22800.00	6036.00	28836.00

Maintenance Operation (3rd Year)

1	Repair and maintenance of fence-15 MD / (in case of Barbed wire fencing Rs.9,000/- for repair), SMC measures(Renovation)-26 MD and maintenance of plantation-14 MD as per requirement	April-March	55	11000.00	500.00	11500.00
2	Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	18	3600.00	0.00	3600.00
Total of 3rd Year:-			73	14600.00	500.00	15100.00

Sl. No.	Item of Works	Period of execution	Mandays	Labour Cost @ Rs.200.00	Material cost	Total in Rs.
1	2	3	4	5	6	7

Maintenance Operation (4th Year)

1	Repair and maintenance of fence-13 MD / (no maintenance in case of Barbed wire fencing), SMC measures-21 MD and maintenance of plantation-14 MD as per requirement	April-March	48	9600.00	500.00	10100.00
2	Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	18	3600.00	0.00	3600.00
Total of 4th Year:-			66	13200.00	500.00	13700.00

Maintenance Operation (5th Year)

1	SMC measures and maintenance of plantation	April-March	35	7000.00	500.00	7500.00
2	Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	18	3600.00	0.00	3600.00
Total of 5th Year:-			53	10600.00	500.00	11100.00

Maintenance Operation (6th Year)

1	SMC measures and maintenance of plantation	April-March	35	7000.00	500.00	7500.00
2	Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	18	3600.00	0.00	3600.00
Total of 6th Year:-			53	10600.00	500.00	11100.00

Maintenance Operation (7th Year)

1	SMC measures and maintenance of plantation	April-March	35	7000.00	500.00	7500.00
2	Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	18	3600.00	0.00	3600.00
Total of 7th Year:-			53	10600.00	500.00	11100.00

Maintenance Operation (8th Year)

1	SMC measures and maintenance of plantation	April-March	35	7000.00	500.00	7500.00
2	Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	18	3600.00	0.00	3600.00
Total of 8th Year:-			53	10600.00	500.00	11100.00

Maintenance Operation (9th Year)¹

1	SMC measures and maintenance of plantation	April-March	35	7000.00	500.00	7500.00
2	Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	18	3600.00	0.00	3600.00
Total of 9th Year:-			53	10600.00	500.00	11100.00

Sl. No.	Item of Works	Period of execution	Mandays	Labour Cost @ Rs.200.00	Material cost	Total in Rs.
1	2	3	4	5	6	7

Maintenance Operation (10th Year)

1	SMC measures and maintenance of plantation	April-March	35	7000.00	500.00	7500.00
2	Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	18	3600.00	0.00	3600.00
	Total of 10th Year:-		53	10600.00	500.00	11100.00
	G.Total:-		1103	220600.00	50221.00	270821.00

TOTAL COST FOR 1 HA.

Year	No. of MD	Labour Cost	Material Cost	Total
0 th Year	300	60,000.00	18,512.00	78,512.00
1 st Year	232	46,400.00	21,673.00	68,073.00
2 nd Year	114	22,800.00	6,036.00	28,836.00
3 rd Year	73	14,600.00	500.00	15,100.00
4 th Year	66	13,200.00	500.00	13,700.00
5 th Year	53	10,600.00	500.00	11,100.00
6 th Year	53	10,600.00	500.00	11,100.00
7 th Year	53	10,600.00	500.00	11,100.00
8 th Year	53	10,600.00	500.00	11,100.00
9 th Year	53	10,600.00	500.00	11,100.00
10 th Year	53	10,600.00	500.00	11,100.00
TOTAL:-	1,103	2,20,600.00	50,221.00	2,70,821.00

TOTAL PROJECT COST FOR 63.949 HA.

Year	No. of MD	Labour Cost	Material Cost	Total
0 th Year	19,185	38,36,940.00	11,83,823.89	50,20,763.89
1 st Year	14,836	29,67,233.60	13,85,966.68	43,53,200.28
2 nd Year	7,290	14,58,037.20	3,85,996.16	18,44,033.36
3 rd Year	4,668	9,33,655.40	31,974.50	9,65,629.90
4 th Year	4,221	8,44,126.80	31,974.50	8,76,101.30
5 th Year	3,389	6,77,859.40	31,974.50	7,09,833.90
6 th Year	3,389	6,77,859.40	31,974.50	7,09,833.90
7 th Year	3,389	6,77,859.40	31,974.50	7,09,833.90
8 th Year	3,389	6,77,859.40	31,974.50	7,09,833.90
9 th Year	3,389	6,77,859.40	31,974.50	7,09,833.90
10 th Year	3,389	6,77,859.40	31,974.50	7,09,833.90
TOTAL:-	70,536	1,41,07,149.40	32,11,582.73	1,73,18,732.13
			OR	1,73,18,800.00

(Rupees One Crore Seventy Three Lakhs Eighteen Thousand Eight Hundred)only

Forest Range Officer
Dalijoda Range, Byree

Asst. Conservator of Forests
Cuttack Forest Division.

Divisional Forest Officer
Cuttack Forest Division