

SCHEME FOR SITE SPECIFIC COMPENSATORY

AFFORESTATION OVER AN AREA OF

6.787 Ha. (16.77 Ac.)

NON FOREST GOVT. LAND IDENTIFIED IN

VILLAGE "PANTURI"

UNDER DHARMASALA TEHSIL OF

JAJPUR DISTRICT

UNDER CUTTACK FOREST DIVISION

AGAINST DIVERSION PROPOSAL FOR

MAHAGIRI MINES (CHROMITE)

IN VILLAGE KALIAPANI

IN JAJPUR DISTRICT BY

M/S IMFA LTD.

Prepared by

Divisional Forest Officer

Cuttack Forest Division

Site Specific Compensatory Afforestation Scheme over 6.787 Ha. of Non-Forest Govt. Land identified in village Panturi under Dharmasala Tahasil (Jajpur Dist.) of Dalijora Forest Range in lieu of forest land to be diverted for Mahagiri Mines (Chromite) of M/s IMFA Ltd.

INTRODUCTION

Mahagiri Mines (Chromite) of M/s IMFA Ltd. over an area of 73.777 Ha. is held by M/s IMFA Ltd. under mining lease with effect from 20.05.2005 for a period of 30 years for extraction of chrome ore. In pursuance of guidelines dt.10.03.2015 of Govt. of India, MoEF & CC, forest land is appearing in the sabik records as on 25.10.1980, the same shall be diverted. Accordingly the total M.L area of 73.777 Ha comprises.73.777 Ha forest land . The user Agency M/s IMFA Ltd. has already diverted 66.380 Ha. (Total forest area 63.910 ha. + SZ area 2.47 Ha.). Hence the user agency submitted the proposal for diversion of forest land over 7.397 Ha. (Including 0.61 Ha earmarked for safety zone). As such the requirement of non-forest Govt. land for compensatory afforestation comes to 6.787 (Total forest area 7.397 Ha. - SZ area 0.61 Ha.) which has been identified in village i.e at Panturi village over 6.787 Ha. In accordance with the provision of F.C Act,1980, Compensatory Afforestation scheme over 6.787 Ha. of non-forest land has to be covered to compensate the loss of Forest and Environment in general against the forest land proposed to be utilised for non-forestry activity pertaining to Mahagiri Mines(Chromite) of M/s IMFA Ltd.

Therefore the present scheme aim at preparation of site specific compensatory afforestation scheme over 6.787 Ha. of non-forest land with suitable soil and water conservation measures for block plantation with suitable indigenous species to restore the biodiversity with participation and awareness of the local villagers.

DETAILS OF THE SITE SELECTED

Non-forest Govt. land to the extent 6.787 Ha. in a compact patch has been identified in village Panturi under Dharmasala Tehsil (Jajpur Dist.) in Dalijora range of Cuttack Forest Division for Compensatory Afforestation. The details of plot wise land schedule are furnished below:

Land Schedule of the proposed Compensatory Afforestation area.

Name of the Tehsil	Name of the village	Khata No.	Plot No.	Area considered	Kissam
Dharmasala	Panturi	212	368(P)	16.77 Ac.	Parbat-3
			Total	16.77 Ac. Or 6.787 Ha.	

The site is located on survey of India Topo sheet No. F45UI between latitude 20° 47' 01"N to 20° 47' 35"N Longitude 86° 06' 11"E to 86° 06' 41"E (Enclosed as Annexure-1) and at a distance of 24 km from Tahasil Headquarters. The proposed area is free from encroachment and encumbrances and suitable for plantation.

CROP COMPOSITION

The area having gentle slope of hill with morrum earth surface and associated with deep well drained soils. The land is having some pockets of rocky patches which need special treatment .The crop is having mainly small bushes covered with Pokasunga in scattered patches and the rest is purely invaded with weeds.

SOIL & TOPOGRAPHY

The topography of the area is having partly plain with gentle slope of hill with morrum earth surface associated, well drained hard soil and stones. There is good depth of soil (morrum earth surface) i.e 1 ft to 4 ft found in the area.

RAINFALL AND TEMPERATURE

The average annual rainfall varies from 1100 mm to 1200 mm. The maximum rainfall is mostly received during the rainy season from July to September. The average minimum and maximum temperature varies from 13°C in December to 32°C in May.

CLIMATE

The climatic condition of this division is characterized by a hot dry summer having well distributed rainfall in the south-west monsoon season followed by the hot season which starts from the beginning of March and continues till second week of June. May is the hottest month of the year with mean daily maximum temperature of about 44°C and the mean daily minimum temperature of about 27°C. The rainy season starts from mid of June to second week of September where July being the month with the heaviest shower. Relative humidity is the heaviest shower. Relative humidity is high in south-west monsoon season. The rainfall is fairly uniform throughout the Division. Storms and depressions from the Bay of Bengal during the monsoon season pass across the Division causing heavy rainfall. The winter starts from November and last part up to end of February.

Main Objective of the scheme

- (i) Restock the degraded non-forest area by taking up plantation.
- (ii) The restoration of the depleted forests quickly through artificial regeneration and compensate the loss of forests due to mining activities.
- (iii) To generate employment opportunity to the villages living around the area.
- (iv) To conserve the soil and moisture of the area for recharging of ground water table and better agricultural productivity to fulfill the food and water scarcity demand of the area.
- (v) To improve the habitat of the wildlife found in the area for the wildlife management point of view.
- (vi) To control environmental pollution and global warming.
- (vii) Above all checking soil erosion and run off which will go in combination for enrichment of the vegetation and soil and building up ecosystem.

ITEMS OF WORKS TO BE TAKEN UP

In order to achieve the above objectives, the following items of work are mainly prescribed to be taken up with the full involvement and co-operation of local peoples.

1. SURVEY AND DEMARCATION OF BOUNDARY

The identified non-forest land proposed for compensatory afforestation shall be surveyed and demarcated in the field with the help of chain and prismatic compass by posting of R.C.C pillars of 4' height which shall be embedded at every corner/turning points of the boundary line. The R.C.C pillars shall be embedded 0.625 mtr deep into the ground with a foundation of 50c.mX40c.m in C.C. Numbering should be done by the user agency at their cost in a clock wise direction.

FENCING

In order to protect the plantation and regeneration from grazing and other biotic interferences, fencing shall be taken up around the entire Compensatory Afforestation. Since the area is a big in nature and identified in two patches and adjacent to village area, there is every possibility of grazing by local domestic animals. Hence it would be wise to propose for bamboo twigs and bamboo thorns fencing with vegetative /green fencing by planting thorny species like prosopis, Agave and non-browsing species around 6.787 Ha. In addition, palm species should be planted at a spacing 2.5 mtr along the boundary as a permanent feature of boundary of the plantation area.

PLANTATION MODEL

The identified area for compensatory afforestation shall be covered under BLOCK PLANTATION with indigenous, hardy and light demander species at the rate of 1600 saplings per ha with a spacing of 2.5mX2.5m over 6.787 ha. Hence 10,860 nos. of seedlings will be required for planting over the entire area.

PLANTING OF SEEDLINGS

Suitable indigenous and other species will be selected and planted. In the peripheral areas of the site, susceptible to grazing may be planted with non-browsable species like Teak, karanja etc.. While taking up plantation, the species like Mahula, Bahada, Amala, Karanja, Neem, Asan, Teak etc. will be selected.

1. Amla (*Emblica officinalis*)
2. Bahada (*Terminalia belerica*)
3. Karanja (*Pongamia pinnata*)

4. Neem (*Azadirachta indica*)
5. Sisoo (*Dalbergia sisoo*)
6. Gambhar (*Gmelina arborea*)
7. Teak (*Tectona grandis*)
8. Mahul (*Madhuca indica*)
9. Acacia (*Acacia auriculiformis*)
10. Chakundi (*Caccia siamea*)
11. Sirisha (*Albizia lebbek*)
12. Chhatian (*Alstonia scholaris*)
13. Chakunda (*Samanea saman*)
14. Asan (*Terminalia tomentosa*)
15. Arjuna (*Terminalia arjuna*)
16. Mango (*Mangifera indica*)
17. Jamun (*Syzygium cumini*)
18. Khaira (*Acacia catechu*)

RAISING OF NURSERY

A good nursery is the pre-requisite for a successful plantation. Therefore all care should be taken to healthy and sound seedlings of required sizes before they are put to plantation site. Temporary nursery will be raised for 1 year old seedlings during the pre-planting year. All care as per the guideline of the plantation manual should be taken up at all stages of nursery operation so that a good stock of healthy seedlings should be raised to cover the short fall due to causality in the nursery stage. Nursery site should be selected, preferably near to the plantation site and in a well drained locality having perennial water source.

ALIGNMENT, STACKING & DIGGING OF PITS

A treatment map will be prepared for the area. Pit of size 45cmX45cmX45cm will be dug with spacing of 2.5mts.X2.5mts. during November-December which will help in weathering of pits. The area shall be demarcated and shown on the treatment map.

PLANTING

The best time of planting of the potted seedling is soon after the on-set of regular monsoon or after a good shower of rain. Before planting, the pits are to be prepared by putting

mixture of half cubic-feet of alluvia soil and farmyard manure. Chemical fertilizer (N.P.K) will be applied as basal dose@ 50gms per plant at the time of planting. In order to save the planted seedlings from termite attack, some effective insecticides will be applied at the time of planting. Vermi Compost is also to be applied to the pits during June-July. The excavated earth from the pits, already weathered and free from stones should be filled in the pits. Planting should be taken up on rainy/cloudy days by adopting all standard techniques of planting during the mid – June after the onset of monsoon. The soil and water conservation works will be taken up before the rains.

WEEDING, MANURING, SOIL WORKING & CASUALITY REPLACEMENT

To improve and enhance the growth of plants, it is necessary to see that the plants get as much nutrients as far as possible and that no other wild plants are contesting for space, light and nutrients. Therefore 1st weeding and soil working will be undertaken during 1st week of August or just after establishment of newly planted seedlings. Soil working at 0.5m radius around the seedlings planted will be taken up. Care should be taken to see that the root system of the planted seedlings is not damaged. Weeds within a radius of 0.5 meters around the plant should be removed.

2nd weeding will be done during 2nd week of September or 1st week of October. The best time for application of fertilizer is at the time of soil working and weeding. In organic fertilizer like N.P.K @50gm/plant shall be applied at the time of soil working. Chemical fertilizer should not be placed too close to the plant as it may burn the roots and kill the plants. It is advisable to apply fertilizer on a rainy day soon after the weeding has been completed.

FIRE LINE TRACING & CONTROL

In order to reduces fire hazards by lessening the chance of ground fire, fire lines are to be made in lines of 1.5mtr. width around the plantation.

WATCH & WORD

Daily wage watchers shall be engaged for watch and ward of the plantation against biotic interference, fire hazards etc, throughout the year as per the approved cost norm.

MULCHING

Mulching is an operation where cut vegetative materials are placed around planted seedlings covering the soil around it. This helps soil climate to considerable extent from desiccation. Mulching affects soil temperature, helps condensation and prevents 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 mulches around the seedlings. Pruning of lower branches of the seedlings planted should be done in the third & subsequent years.

SOIL AND MOISTURE CONSERVATION

The slope of the identified area varies from gentle to moderate slopes and therefore soil conservation measures are indispensable and are to be appropriately addressed. 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 of 2m longX0.50m widthX0.5m deep along the contour and the excavated earth be piled on the down hill side to form a bund.

The staggered contour bunds should be stabilized with plantation on it. The staggered contour trenches will act as place of deposit of eroded soil and will check soil erosion. It will retard the velocity of run-off and will be helpful in feeding ground water to the plants planted below it. Check dams are proposed to be constructed with dry rubble stone across in small nallahs specially to be given on the upper reaches of the nallahs.

MONITORING AND EXECUTION

The detail year wise item of works/operation of the present Compensatory Afforestation scheme including preparatory operation (0th year) to 10th year operation are furnished below. The cost estimate of various operations to be taken up in block plantation made has been furnished.

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.

TOTAL COST OF THE PROJECT

The total cost of the will be **Rs.18,38,000.00 (Rupees Eighteen Lakhs Thirty Eight Thousand)** only as detailed furnished herewith which will be deposited after due approval of the scheme.

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.

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 and mulching:** 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 and 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) **Maintenance of plantation and repair of fence :-** Weeding and deep soil working, Maintenance of fencing, Renovation of SMC measure and maintenance of plantation will be done during April-March (Next year)
- (ii) **Watch and Ward:** Daily wage watchers shall be engaged for the whole year as in previous years.

4TH YEAR OPERATION.

- (i) **Maintenance of plantation and repair of fence :-** Weeding and deep soil working, Maintenance of fencing, Renovation of SMC measure and maintenance of plantation will be done during April-March (Next year).
- (ii) **Watch and Ward:** Daily wage watchers shall be engaged for the whole year as like previous years.

5TH YEAR OPERATION.

- (i) **Maintenance of plantation and SMC measure :-** SMC measures and maintenance of plantation will be done during April-March (Next year).
- (ii) **Watch and Ward:** Daily wage watchers shall be engaged for the whole year as like previous years.

6TH YEAR OPERATION.

- (i) **Maintenance of plantation and SMC measure :-** SMC measures and maintenance of plantation will be done during April-March (Next year).
- (ii) **Watch and Ward:** Daily wage watchers shall be engaged for the whole year as like previous years.

7TH YEAR OPERATION.

- (i) **Maintenance of plantation and SMC measure :-** SMC measures and maintenance of plantation will be done during April-March (Next year).
- (ii) **Watch and Ward:** Daily wage watchers shall be engaged for the whole year as like previous years.

8TH YEAR OPERATION.

- (i) **Maintenance of plantation and SMC measure :-** SMC measures and maintenance of plantation will be done during April-March (Next year).
- (ii) **Watch and Ward:** Daily wage watchers shall be engaged for the whole year as like previous years.

9TH YEAR OPERATION

- (i) **Maintenance of plantation and SMC measure :-** SMC measures and maintenance of plantation will be done during April-March (Next year).
- (ii) **Watch and Ward:** Daily wage watchers shall be engaged for the whole year as like previous years.

10TH YEAR OPERATION

- (i) **Maintenance of plantation and SMC measure :-** SMC measures and maintenance of plantation will be done during April-March (Next year).
- (ii) **Watch and Ward:** Daily wage watchers shall be engaged for the whole year as like previous years.

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AFFORESTATION OVER AN AREA OF

6.787 Ha. (16.77 Ac.)

NON FOREST GOVT.LAND IDENTIFIED IN

VILLAGE "PANTURI"

UNDER DHARMASALA TEHSIL OF

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UNDER CUTTACK FOREST DIVISION

AGAINST DIVERSION PROPOSAL FOR

MAHAGIRI MINES (CHROMITE)

IN VILLAGE KALIAPANI

IN JAJPUR DISTRICT BY

M/S IMFA LTD.

Prepared by

Divisional Forest Officer

Cuttack Forest Division

SCHEME FOR BLOCK PLANTATION OVER 6.787 HA IN VILLAGE PANTURI OF DALIJORA
RANGE OF CUTTACK FOREST DIVISION UNDER CUTTACK DISTRICT

Name of the Scheme :-	COMPENSATORY AFFORESTATION(BALD HILL)
Name of the Project :-	Proposal for C.A. over 6.787 Ha of Govt. Non-Forest land in Panturi Village of Dharmasala Tahasil under Jajpur District in respect of diversion of Forest land over 7.397 Ha of Mahagiri Chromite Mines of M/S. IMFA 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.)	6.787
4. TOTAL NOS. OF PLANTS TO BE PLANTED	10860
5. SPACING TO BE ADOPTED	2.5 Mtr. 2.5Mtr.X2.5Mtr.
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 (0 th 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), 2nd 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	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 6.787 HA.

Year	No. of MD	Labour Cost	Material Cost	Total
0 th Year	2,036	4,07,220.00	1,25,640.94	5,32,860.94
1 st Year	1,575	3,14,916.80	1,47,094.65	4,62,011.45
2 nd Year	774	1,54,743.60	40,966.33	1,95,709.93
3 rd Year	495	99,090.20	3,393.50	1,02,483.70
4 th Year	448	89,588.40	3,393.50	92,981.90
5 th Year	360	71,942.20	3,393.50	75,335.70
6 th Year	360	71,942.20	3,393.50	75,335.70
7 th Year	360	71,942.20	3,393.50	75,335.70
8 th Year	360	71,942.20	3,393.50	75,335.70
9 th Year	360	71,942.20	3,393.50	75,335.70
10 th Year	360	71,942.20	3,393.50	75,335.70
TOTAL:-	7,486	14,97,212.20	3,40,849.93	18,38,062.13
			OR	18,38,000.00

(Rupees Eighteen Lakhs Thirty Eighty Thousand)only

Sub verified
Forest Range Officer
Daliyoda Range, Byree

checked.
Asst. Conservator of Forests
Cuttack Forest Division.
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Divisional Forest Officer
Cuttack Forest Division