Site specific compensatory Afforestation scheme over 7.40 Ha. of Non-Forest Govt. Land identified in village Anjira under Dharmasala Tahasil (Jajpur Dist.) of Dalijora Forest Range in lieu of forest land to be diverted for Saruabil Chromite Mines of M/s Misrilall Mines (P) Ltd.

INTRODUCTION

Saruabil Chromite Mines of M/s Misrilall Mines (P) Ltd. over an area of 246.858 Ha. is held by M/s Misrilall Mines (P) Ltd. under mining lease with effect from 15.05.1954 for a period of 20 years for extraction of chrome ore and subsequently renewed for 20 years with effect from 15.05.1974. The 2nd renewal of lease was granted for period of 20 years with effect from 15.05.1994. 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 246.858 Ha comprises of 241.77 Ha forest land and 5.088 Ha non-forest land out of 241.77 Ha, 224.63 Ha has been diverted under F(C) Act. Hence the user Agency M/s Misrilall Mines (P) Ltd. has submitted the proposal for diversion of forest land over 17.14 Ha.(Including 0.57 Ha earmarked for safety zone). As such the requirement of non-forest Govt. land for Compensatory Afforestation comes to 7.40 Ha.(Forest area proposed for diversion 17.14 Ha -SZ area 0.57 Ha - broken up area prior to 1980, 9.328 Ha) which has been identified in village Anjira over 7.40 Ha. In accordance with the provision of F.C Act,1980. Compensatory Afforestation scheme over 7.40 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 utilized for non-forestry activity pertaining to Saruabil Chromite Mines of M/s Mishrilall Mines (P) Ltd.

Therefore the present scheme aim at preparation of site specific compensatory afforestation scheme over 7.40 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 7.40 Ha. in a compact patch has been identified in village Anjira under Dharmasala Tehsil (Jajpur Dist.) in Dalijora range of Cuttack forest Division for Compensatory Afforestation in two patches. The details of plot wise land schedule are furnished below:

Land Schedule of the proposed Compensatory Afforestation area.

Name of the	Name of the	Khata No.	Plot No.	Area considered	Kissam
Tehsil	village				Pahada
Dharmasala	Anjira	1729	5839	18.28.\cs	Panada

The site is located on survey of India Topo sheet No. 1-45UI between latitude 20° 48°55.40174"N to 20° 49°01.27450"N. Longitude 86° 00° 240.91218"F to 86° 01°39.65982"E (Enclosed as **Annexure-1**) and at a distance of about 24 km from Tehsil Headquarters. The proposed area is free from eneroachment 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 more than 30% 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° e in December to 32° e in May.

CLIMATE

The climatic condition of this division is characterized by a hot dry summer 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

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 last part of November & continues up to end of February.

Main Objective of the scheme

- (i) Restock the degraded non-forest area by taking up plantation.
- (ii) Artificial regeneration through plantation to 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 50e.mX40e.m in C.C. Numbering should be done by the user agency at their cost in a clock wise direction.

NCING

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 thoras fencing with vegetative green fencing by planting thoray species like prosopis. Agave and non-browsing species around 7.40 Ha.

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 7.40 Ha. Hence 11.840 nos, of seedlings will be required for planting over the entire area. The topography of the area being hard soil and stones having more than 30% slope partly with completely devoid of vegetation it is proposed to take up plantation over 7.40 Ha, in the approved cost norm for 1600 plants per ha, for Bald Hill Plantation norm with 10 years maintenance. Accordingly the Compensatory Afforestation scheme over 7.40 Ha, has been prepared with Bald Hill Plantation norm and enclosed with the diversion proposal.

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.

- Amla (Emblica officinalis)
- 2. Bahada (Terminalia belerica)
- 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 (Samania saman)
- 14. Asan (Terminalia tomentosa)
- 15. Arjuna (Teminalia arjuna)
- 16. Mango (Mangifera indica)
- 17. Jamun (Syzyium cumini)
- 18. Khaira (Acacia catechu)

RAISING OF NURSERY

A good nursery is the pre-requisite for a successful plantation. Therefore all care should 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 eausality 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, for the bald hill plantation 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 a 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 L^a weeding and soil working will be undertaken during L^{at} 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 a 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 reduce fire hazards by lessening the chance of ground fire, fire lines are to be made in lines of 1.5 mtr. 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 help soil climate to considerable extent from desiccation. Mulching affects 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 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 2.5m long X 0.50m width X 0.5m deep along the contour and the excavated earth be piled on the downhill 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 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 mode has been furnished in Annexure-

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. 20,04,075.00 (Rupees Twenty Lakhs Four Thousand Seventy Five) 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.
- (vi) Raising of Nursery

2 N YEAR OPERATION

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

(i) I" Weeding, enasality 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 a stegms 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 Fst 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) 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 fine tracing and Control: Fire tracing will be done during January and 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 and February like previous year.
- (iii) Watch and Ward: Daily wage watchers shall be engaged for the whole year as like previous years.

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

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

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

SCHEME FOR BALD HILL PLANTATION OVER 7.40 HA IN VILLAGE ANJIRA 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 7.4 Ha of Govt. Non-Forest land in Anjira Village of Dharmasala Tahasil under Jajpur District in respect of diversion of Forest land over 17.14 Ha of Saruabil Chromite Mines of M/S. Mishrilal Mines Pvt. Ltd.				
Name of Implementing Agency:-	Divisional Forest Officer, Cuttack Forest Division				

1. MODEL	BLOCK
2. NO. OF PLANTS PER HA.	1,600
3. TOTAL AREA TO BE PLANTED(In HA.)	7.4
4. TOTAL NOS. OF PLANTS TO BE PLANTED	11,840
5. SPACING TO BE ADOPTED	2.5MtrX2.5 Mtr
6. ONE HA.	126 RMT.
7. Wage Rate [Per MD]	200.00

SI.	Item of Works	Period of execution	Mandays	Labour Cost @ Rs.200.00	Material cost	Total in Rs.
	2	3	4	5	6	7
1		ry Operation	(0 th Year)			
1	Survery & Demarcation	June	2	400.00	0.00	400.00
2	Fencing:-	lung	19	3,800.00	4,280.00	8,080.00
	(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)	September	19			4,693.00
P	(ii)To be strengthened by planting of bamboo and other seedings 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 8 375 others) to be planted in two rows to cover 126 meter of periphery by the vegetative fence. (Bamboo seedlings @Rs.9.45 per seedling X 125 = Rs.1,181/-Agave Seedlings @Rs.3.50 per seedling X 375 = Rs.1,312/-)	September	11	2,200.00	2,493.00	
3	lle \ aach pi	it Nov-Dec	128	25,600.00	0.00	25,600.0

SI. No.	Item of Works	Period of execution	Mandays	@ Rs.200.00	Material cost	Total in Rs.
1	2	3	4	5	6	7
4	Soil and water conservation measures					
	(a)Staggered contour trench @300 per ha. (2.5mX0.5mX0.5m); digging of Percolation Pits @600 per ha in lieu of staggered trenches, gully plugging and drainage line treatment, half moon trench on the uphill side of each planting pit (100 MD for S.Trench / P Pit & 30 MD for Gully plugging, drainage line treatment & half moon trench)	Sept- November	130	26,000.00	0.00	26,000.00
	(b)Site clearance(8 MD),alignment of contour line on ground,staking of planting pits, contour trenches/percolation pits & check dam sites etc.(2 MD)		10	2,000.00	0.00	
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/-	March	44	8,800.00	2,939.00	
	Total of 0 th Year:		344	68,800.00	9,712.00	78,512.00
			ast Voorl			
		Operation	21.5	4,300.00	593.00	4,893.00
1	Cost of seedlings(balance) from April- June/July @2.78/- per seedling for 1760 seedlings = Rs.4893/-	- April-July	21.5			
2	Freshening of pits(64), filling with fertile so & Farm Yard Manure (FYM)(24), vermi compost application and planting of 60 cn tall saplings including carriage of plants(2: MD)		109	21,800.00		
3		t	0	0.00	9,200.0	9,200.00
-	Sowing of seeds on dugout earth of trench	June	6	1,200.00	200.0	0 1,400.00
		g July-August er),	36	7,200.00	0.0	
(Cost of Fertilizer & Insecticide (granula insecticides @ 5 gm per plant @Rs.80/- per Kg = 640/-, NPK 100 gms/plant in two doses @Rs.24/- per Kg = Rs.3840/-	er			4,480.0	
	7 Repair and maintenance of Bamboo fend including material cost	e August - October	15	3,000.0		
	8 Maintenance of soil and Moistu	re October-	26	5,200.0	0.	5,200.0

I. Io.	Item of Works	Period of execution	Mandays	Labour Cost @ Rs.200.00	Material cost	Total in Rs.
	2	3	4	5	6	7
9	Closure to grazing, fire & other biotic interference by engaging watch and ward.	On the second of	30	6,000.00	0.00	6,000.00
10	Fire tracing and control, Display board construction, painting/writing and other miscellaneous cost	April-March	10	2,000.00	360.00	2,360.00
	Total of 1 st Year		253.5	50,700.00	17,373.00	68,073.00
	Maintenanc	e Operation	n (2 nd Year)			
1	Casualty replacement(6 MD) including cost @Rs.9.45 per seedlings and its	June-July	10	2,000.00	1,512.00	3,512.00
2	transportation Soil working(7 MD), 1 st weeding(6 MD), 2nd weeding (6 MD) & fertiliser	August - October	23	4,600.00	0.00	4,600.00
3	application(4 MD) 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 = 64/-				1,984.00	
4	f Dambaa fanar	August - October	15	3,000.00	2,540.00	
5	Maintenance of Soil and Moisture Conservation measures (20% of cost)	August - October	26	5,200.00	0.00	
6	the state of the	r Feb-March	10	2,000.00	0.00	
7		c April-March	30	6,000.00	0.00	
	Total of 2 nd Year	:-	114	22,800.00	6,036.0	0 28,836.0
	Maintenan	ce Operatio	on (3 rd Year	•)		
1	Repair and maintenance of fence-15 MD (in case of Barbed wire fencing Rs.9,000 for repair), SMC measures(Renovation)-2 MD and maintenance of plantation-14 M	/ April-March /-		11,000.00	500.0	11,500.0
2	as per requirement Closure to grazing, fire & other biot interference by engaging watch and ward.	ic April-March	18	3,600.0	0.0	3,600.0
-	Total of 3 rd Year		73	14,600.0	500.0	15,100.0
	Maintenar	ice Operati	on (4 th Yea	r)		
	Repair and maintenance of fence-13 MD no maintenance in case of Barbed wi fencing), SMC measures-21 MD armaintenance of plantation-14 MD	/ (April-March re	48	9,600.0		
-:	Closure to grazing, fire & other bio interference by engaging watch and ward.	tic April-March	18	3,600.0	0.0	
-	Total of 4 th Yea		66	13,200.0	500.	00 13,700.0

il.	Itelli oi works	Period of execution	Mandays	Labour Cost @ Rs.200.00	Material cost	Total in Rs.
	2	3	4	5	6	7
1		e Operation (5 th Year)			
	SMC measures and maintenance of	April-March	35	7,000.00	500.00	7,500.00
2	plantation Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	18	3,600.00	0.00	3,600.00
	Total of 5 th Year:-		53	10,600.00	500.00	11,100.00
		ce Operation	(6 th Year)			
1	SMC measures and maintenance of	April-March	35	7,000.00	500.00	7,500.00
2	plantation Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	18	3,600.00	0.00	3,600.00
	Total of 6 th Year:-		53	10,600.00	500.00	11,100.00
		ce Operation	(7 th Year)			
		April-March	35	7,000.00	500.00	7,500.00
1	plantation				0.00	2 000 00
2	Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	18	3,600.00	0.00	
	Total of 7 th Year:-	33 ()	53	10,600.00	500.00	11,100.00
	Maintenar	nce Operation	(8 th Year)		The Alle	
1		April-March	35	7,000.00		
2	Closure to grazing, fire & other biotic interference by engaging watch and ward.	April-March	18	3,600.00	0.00	
	Total of 8 th Year:-	17	53	10,600.00	500.00	11,100.00
	Maintena	nce Operation	n (9 th Year)			
1		f April-March	35	7,000.00	500.00	7,500.00
2		c April-March	18	3,600.00	0.00	3,600.0
_	Total of 9 th Year:	_	53	10,600.00	500.0	0 11,100.0
		nce Operation	(10 th Year)			
<u> </u>		of April-March		7,000.0	500.0	0 7,500.0
2	plantation Closure to grazing, fire & other bioti	c April-March	18	3,600.0	0.0	0 3,600.0
	interference by engaging watch and ward.			10,000,0	0 500.0	0 11,100.0
	Total of 10 th Year		53	10,600.0		
		G.Total:	1168.5	2,33,700.0	0 37,121.0	2,70,621.0

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

TOTAL COST FOR 1 HA. Total **Material Cost** Labour Cost No. of MD Year 78,512.00 9,712.00 68,800.00 344 0th Year 68,073.00 50,700.00 17,373.00 254 1st Year 28,836.00 6,036.00 22,800.00 114 2nd Year 15,100.00 500.00 14,600.00 73 3rd Year 13,700.00 500.00 13,200.00 66 4th Year 11,100.00 500.00 10,600.00 53 5th Year 11,100.00 500.00 10,600.00 53 6th Year 11,100.00 500.00 10,600.00 53 7th Year 11,100.00 500.00 10,600.00 53 8th Year 11,100.00 500.00 10,600.00 53 9th Year 11,100.00 500.00 10,600.00 53 10th Year 2,70,821.00 2,33,700.00 37,121.00 1168.5 TOTAL:-

TOTAL PROJECT COST FOR 7.4 HA.

Year	No. of MD	Labour Cost	Material Cost	Total
	2545.6	5,09,120.00	71,868.80	5,80,988.80
0 th Year	1875.9	3,75,180.00	1,28,560.20	5,03,740.20
1 st Year	843.6	1,68,720.00	44,666.40	2,13,386.40
2 nd Year	540.2	1,08,040.00	3,700.00	1,11,740.00
3 rd Year	488.4	97,680.00	3,700.00	1,01,380.00
4 th Year	392.2	78,440.00	3,700.00	82,140.00
5 th Year	392.2	78,440.00	3,700.00	82,140.00
6 th Year	392.2	78,440.00		82,140.00
7 th Year	392.2	78,440.00		82,140.00
8 th Year	392.2	78,440.00	3,700.00	82,140.00
9 th Year	392.2	78,440.00	3,700.00	82,140.00
10 th Year	8646.9	17,29,380.00		20,04,075.40
OR	0040.0			20,04,075.00

(Rupees Twenty Lakhs Four Thousand Seventy Five)only

Divisional Forest Officer Cuttack Forest Division

Asst. Censervator of Ferests Cuttack Forest Division.