SCHEME FOR COMPENSATORY AFFORESTATION OVER AN AREA OF AC 58.58 OR 23.7064 HECT. IN AR MODULE (BLOCK PLANTATION) IN THE VILLAGE JAKA UNDER PARJANG TAHASIL OF MAHABIROD RANGE IN DHENKANAL FOREST DIVISION.

Introduction:

The IDCO, Bhubaneswar has submitted a forest diversion proposal to the Divisional Forest Officer, Dhenkanal Forest Division for expansion of existing plant of M/s GM Iron & Steel Company Ltd. in village-Kulei under Parjang Tahasil of Dhenkanal District for diversion of 11.853Ha. of forest land for non-forestry purpose.

Selection of Sites

As a matter of principle and as per guidelines of Forest (Conservation) Act, 1980 much efforts have been exerted to identify non-forest land for the purpose of Compensatory Afforestation. However, as per para 2.3 (iii) of guideline to the Forest (Conservation) Act, due to Kissam- Gramya Jungle, so twice extent of following land against the forest land proposed for diversion has been identified in Parjang Tahasil of Dhenkanal District. Hence, the Compensatory Afforestation Scheme is prepared in AR (Block Plantation) in village- Jaka. The land schedule has been furnished below. The following land is located in Mahabirod Range of Dhenkanal Division.

Tahasil	Village.	Khata No.	Plot No.	Area (in ha)	Kissam.
Parjang	Jaka	105	02	58.58	Gramya Jungle
21 n A	Total			58.58 Ac or 23.7064 Ha.	= 3

Description of the existing vegetation

The existing vegetation is of miscellaneous type like only bushes.

Soil & Topography

The topography of area is undulating. But the depth of the soil is good being a valley and the existing vegetation indicates the PH value to be above 07, hence the soil is basic.

Temperature

The average temperature varies from 13.5° C minimum in December to 45°C maximum in May.

Rainfall

The annual rainfall varies from 1200 mm to 1500 mm. The maximum rainfall is received during the rainy season from July to September.

· Objective of the Scheme

The main objective of the scheme is to re-stock the Gramya Jungle land identified with mostly indigenous species with admixture of fuel wood, small timber, N.T.F.P., medicinal plants, bamboo etc. It also aims at defining the boundaries of the Gramya Jungle land with Chain Link Fencing and enforcing protection measures of the plantations by involving people around under JFM. It further seeks to dovetail suitable soil conservation measures with the afforestation works, so as to conserve soil and water for enrichment of the eco-system.

Item of works to be taken up

To achieve the above objectives, the following item of works is mainly prescribed to be taken up.

1. Survey & Demarcation of boundary

This work shall be taken up by the User Agency while arranging for advance possession/mutation of the Gramya Jungle land in favour of Forest Department.

The boundary shall be surveyed with reference to the Village map and demarcated by posting RCC pillars of size 1.25m x 20 cm x 20cm which shall be embedded at every corner/turning of boundary line. The pillars shall be embedded 0.625 meter deep in the ground with a foundation of 50 cm x 40 cm. Top of the pillar shall be kept slanting with the lower side facing outer side of the area. Numbering shall be done in the same sequence as done in the map, which should start from the north-western corner and proceed in a clock-wise direction. The demarcation of the land shall be done in presence of the local Revenue Inspector and Range Officer or Forester to avoid future complication. As on date the land is free from encroachment and encumbrance and attempts will be kept in force to keep the land free from encroachment.

2. Planting and post-planting

AR (Block Plantation) Plantation over an area of 23.7064Ha. shall be taken up in blanks with 1000 plants per hect. at a spacing of 2.5m x 2.5m.

3. Choice of species

As far as possible, indigenous species like, Bamboo, Sisoo, Gambhar, Neem, Asana, Arjun, Simaruba, Mango, etc. shall be planted. In areas subjected to heavily grazing incidences, some mix of Chakunda, Simaruba may be given that to on the periphery only.

4. Points of importance

While taking up plantation, the following vital points shall be taken up for consideration.

- All cares be taken to raise healthy seedlings of minimum 2' height. 10% extra of the required stock shall be raised to accommodate casualties both at the nursery stage as well as transportation of seedling to the site for planting. Complete 1 year seedlings shall be used in case of Bamboo, Sisoo, Asan, Arjun, Neem, Simaruba, Gambhari etc.
- Pitting shall invariably be done during February April, i.e. before onset of monsoon.
 In hilly areas, pits shall be dug along the contours.
- Planting shall be done on the onset of monsoon and should not be delayed.
- Basal dose of 50 grams of NPK and 10 grams of Aldrin be applied at the time of planting for the growth of the plant and to avoid insect attack respectively.
- Causality replacement, weeding and soil working, application of fertilizer and insecticides shall be taken up as per the provisions in the cost-norm at the proper time.
- Engaging requisite watchers as per norm will be done who shall also take up tracing of inspection path and fire line and maintenance of fence as and when required. A temporary watcher shed be constructed at suitable place for proper upkeep of the plantation and for the watcher to take shelter during rains.
- All out efforts shall be taken to keep the plantation free from grazing, fire and other biotic interference.
- The cost norm for Bald hill is given below.
- This Plantation shall be maintained for 10 years to achieve the better rate of survivalist.

5. Soil and moisture Conservation Measures

Soil Conservation measure structures like Staggered Trench, Percolation pit, Contour trench, Graded earthen bund, LBCD, Wire mesh LBCD, Sub-surface Dyke & WHS as per the slope & site requirement on LS.

6. Fencing.

To protect the plantation from grazing and other biotic interference, fencing shall be taken up in and around whole area by Iron angle with Chain Link wire mesh.

7. Monitoring and Evaluation

The scheme shall be executed and monitored by the Divisional Forest Officer, Dhenkanal Division from time to time. To facilitate this, the User Agency shall bear the cost of infrastructure required and shall provide also the infrastructural facilities.

8. Total cost of the Project

The total cost of the project will be **Rs. 2,90,73,000**/-

Divisional Forest Officer,
Dhenkanal Division
Divisional Forest Officer
Dhenkanal Division

	BASE COST NORM FOR COMPENSAT @ 1000 PLANTS PER HEC			LD SEEDLING)		
	WAGE RATE					
Sl. No.	Items of work	Preferabl e period of Executio	No of Men days	Labour Cost (In Rs.)	Material Cost (In Rs.)	Total Cost (In Rs.)
1	2	3	4	5	6	6
	0th Year (Advance w					
1	Survey, Demarcation and Pillar Posting	Nov/Dec	2	622	0	. 622
2	Preparation of Treatment Map (Digital Map)	Nov/Dec	1	311	100	411
3	Site Preparation (Cleaning & removal of debrises)	Nov/Dec	12	3732	0	3732
4	Creation of 4.00 mt. wide Inspection Path	Feb/Mar	1	311	0	311
5	Alignment and stacking of pits	Feb/Mar	1	311	0	311
6	Digging of pits (45 cm × 45 cm × 45 cm)in hard and gravelly soil	Feb/Mar	40	12440	0	12440
.7	Construction of Temporary Labour Shed, Drinking Water facility and First-Aid etc.	Jan/Mar	0	0	3500	3500
	Total		57	17727	3600	21327
		ar/Planting	Year			
1	Refilling of pits by altering the dugout soil of the pits, application of organic compounds/CDM/FYM & mixing the same properly.	Jun/Jul	7.5	2332.50	5000	73322.50
2	Transportation of 18 months old Polythene bag seedling in hired truck/tractor from the Permanent/Mega nursery to planting site including loading & unloading.	Jul/Aug	0	0	6600	6600
3	Watering Polypot seedling at planting site	Jul/Aug	2	622	0	622
4	Conveyance of polypot seedling on head load from the stacking site to individual dugout pits within the planting site, applying insecticide, fertilizers & planting after scooping the soil with other applied materials & pressing the soil perfectly around the planted seedlings.	Jul/Aug	22.5	6997.50	0	6997.50
5	Cost of Fertilizer & Insecticide (a)NPK/Bio-Fertilizer @ 50 gms/plant as basal dose=50kg@ Rs.30/-per kg=Rs.1500.00 (b)Urea/Vermicompost/Mo Khata/any other fertilizer in two subsequent doses @ Rs.750.00 (c)Insecticide/Bio-pescticide @ 5gms/plant=5kg @ Rs.150/-per kg=Rs.750.00	Jul/Aug	0	0 .	3000	3000
6	Casualty Replacement @ 10% (100 nos.)	Jul/Aug	2.5	777.5	0	777.5
7	1st weeding & Manuring	Jul/Sept	12	3732	0	.3732
8	2nd Weeding. Soil working (1mt. diameter around the plants) & Manuring	Oct/Nov	15	4665	0	4665
	Fire line tracing (2m. wide fire line over 400m long)including maintenance of inspection path	Feb/Mar	3	933	0	933
10	Watch & Ward including watering per requirement	Aug/Mar	12	3732	0	3732
	Total		76.50	23791.50	14600.00	38391.50
1	Transportation of 100 seedling from Nursery to plantation site including loading, unloading &	g ar Maintena Jul	0	0	600	600

2	Casualty replacement-10%	Jul	2.5	777.5	0	777.5
3	Cost of Fertilizer & Insecticide	July/Aug	0	0	2875	2875
	(a) Cost of Insecticide/Bio-Fertilizer @ 5	Julyfilag				
	gms/plant =0.5 kg@ Rs.150/-per kg=Rs.75/-					
	(b)Urea/NPK/Bio-fertilizer/Vermicompost/Mo					
	Khata/any other fertilizer in two subsequent					
	doses @ Rs.2800/-		-			
4	Weeding (Complete weeding). Manuring & soil	Sep/Oct	15	4665	0	4665
	working.(1mt. diameter around the plants)					
5	Fire line tracing 92m.wide fire line over 400m	Feb/Mar	3	933	0	933
	long) including maintenance of inspection path	,				
6	Watch & Ward including watering as per	Feb/Mar	18	5598	0	5598
	requirement	100/11	_			
7	Maintenance of Temporary Labour Shed.	Feb/Mar	-	0	1000	1000
	Drinking water facility and First Aid etc.	100/1100			T. T. T.	
	Total		38.5	11973.5	4475	16448.5
		ar Maintena		2277010		20110.0
1	Cost of fertilizer(Urea/NPK/Bio-	July/Aug	0	0	2800	2800
	fertilizer/Vermicompost/Mo Khata/any other	,,,				
	fertilizer					
2	Weeding (Complete weeding). Manuring & soil	Sep/Oct	15	4665	0	4665
_	working.(1mt. diameter around the plants)	ocp/ occ	10			
. 3	Fire line tracing(2m.wide fire line over 400m	Feb/Mar	3	933	0	933
0	long) including maintenance of inspection path	1 00/1441		,,,,	· ·	755
4	Watch & Ward including watering as per	Apr/Mar	18	5598	0	5598
	requirement	/ipi/ilai	10	3370	O	3370
5	Maintenance of Temporary Labour Shed.	Apr/Mar	0	0	1000	1000
3	Drinking water facility and First Aid etc.	Api/Mai	0	"	1000	1000
_	Total		36.0	11196	3800	14996
	·	ar Maintena		11170	3000	14770
1	Fire line tracing(2m.wide fire line over 400m	Feb/Mar	3	933	0	933
_	long) including maintenance of inspection path	1 CD/ Mai	3	755	O	, 933
2	Watch & Ward including maintenance of	Apr/Mar	18	5598	0	5598
2	vegetative fencing	Apri/Mar	10	3396	U	3390
	Total		21	6531	0	6531
		ar Maintena		0331	- 0	0331
1	Fire line tracing(2m.wide fire line over 400m	Feb/Mar	3	933	0	933
_	long) including maintenance of inspection path	1 CD/ Mai	3	755	U .	733
2	Watch & Ward	Apr/Mar	18	5598	0	5598
	Total	Api/Mai	21	6531	0	6531
		ar Maintena		0331	U	0331
1	Fire line tracing(2m.wide fire line over 400m	Feb/Mar	3	933	0	933
-	long) including maintenance of inspection path	1 CO/Mai	3	755	U	933
2	Pruning of branches, Singling out of multiple	Jan/Mar	3	933	0	933
_	shoots	Jany Mai	3	933	U	933
3	Watch & Ward	Apr/Mar	18	5598	0	5598
	Total	Aprijidai	24	7464	0	7464
	•	ar Maintena		7404	0	7404
1	Fire line tracing(2m.wide fire line over 400m	Feb/Mar	3	933	0	933
•	long) including maintenance of inspection path	reb/Mai	3	933	U	933
2	Watch & Ward	Anr/Mar	18	5598	0	5500
	Total	Apr/Mar				5598
		ar Maintena	21	6531	0	6531
1				022	0	022
1	Fire line tracing (2m.wide fire line over 400m	Feb/Mar	3	933	0	933
2	long) including maintenance of inspection path Watch & Ward	An= /M ===	10	FFOO	0	5500
	Total	Apr/Mar	18 21	5598 6531	0	5598 6531
				to be of 1		

	9th Yea	ar Maintenai	nce			
1	Fire line tracing(2m.wide fire line over 400m long) including maintenance of inspection path	Feb/Mar	3	933	0	933
2	Watch & Ward	Apr/Mar	18	5598	0	5598
	Total		21	6531	0	6531
	10 th Ye	ar Maintena	nce			
1	Fire line tracing(2m.wide fire line over 400m long) including maintenance of inspection path	Feb/Mar	3	933	0	933
2	Watch & Ward	Apr/Mar	18	5598	0	5598
	Total		21	6531	0	6531

Year wise Abstract of cost Norm (showing seedling cost separately)

SL. NO	Year	No of Mendays	Labour Cost (In Rs.)	Material Cost (In Rs.)	Monitoring,Evaluation, Learning, Documentation and Other Contingency (5%) of (4+5)	Cost of Seedlings @ Rs.50.31 pre seedlings	Total Cost (In Rs.)
1	2	3	4	5	6	7	8
1	O th	57.0	17727.0	3600.0	973.00	0.00	22300.00
2	1 th	76.5	23791.5	14600.0	1918.50	55341.00	95651.00
3	2 th	38.5	11973.5	4475.0	821.50	5031.00	22301.00
4	3 th	36.0	11196.0	3800.0	749.00	0.00	15745.00
5	4 th	21.0	6531.0	0.0	326.00	0.00	6857.00
6	5 th	21.0	6531.0	0.0	326.00	0.00	6857.00
7	6 th	24.0	7464.0	0.0	373.00	0.00	7837.00
8	7 th	21.0	6531.0	0.0	326.00	0.00	6857.00
9	8 th	21.0	6531.0	0.0	326.00	0.00	6857.00
10	9th	21.0	6531.0	0.0	326.00	0.00	6857.00
11	10 th	21.0	6531.0	0.0	326.00	0.00	6857.00
	Total	358.0	111338.0	26475.0	6791.0	60372.0	204976.0

ANNEXURE-II

	Moisture (1000) WAGE RATE Rs.311/-per day	lg.	
Sl.No.	Item of Works	Preferable Peroid of Execution	Total Cost
	0th Year (Pre-Planting Operation)		
1	Nil		0
	1th Year		
2	Soil Conservation measure structures like Staggered Trench, Percolation pit, Contour trench, Graded earthen bund, LBCD. Wire mesh LBCD, Sub surface Dyke & WHS as per the slope & site requirement on LS	Apr/Sept.	20,215
	2th Year		
3	Maintenance of SMC structures @ 15 % of initial year cost	Apr/Jul	3,032
	3 rd Year		
4	Maintenance of SMC structures @ 15 % of initial year cost	Apr/Jul	3,032
	4 th Year		
5	Maintenance of SMC structures @ 15 % of initial year cost	Apr/Jul	3,032
	5 th Year		
6	Maintenance of SMC structures @ 15 % of initial year cost	Apr/Jul	3,032
	Total		32,343,0

Abstract

Sl. No.	Year	No. Person Days	Labour Cost @ Rs.311/- per day	Material Cost	Total Cost (Rs.)
1	0 th	0.0	0.0	0.0	0.0
2	1 th	0.0	0.0	20,215.00	20,215.00
3	2 th	0.0	0.0	3,032.00	3,032.00
4	3 th	0.0	0.0	3,032.00	
					3,032.00
5	4 th	0.0	0.0	3,032.00	3,032.00
6	5 th	0.0	0.0	3,032.00	32,343.00
	Total	0.00	0.00	32,343.00	32,343.00

	Watering Model-W=ll	
D.	Watering Provision to CA Plantation	@ Dc 211/
וט	iesel pump set with Bore Well (1 pump set+ Bore Well for 5 Ha. Plantation), Wage rate Year of Installation (0th Year)	@ K3.311/-
1	Cost of Borewell	1,50,000
2	Cost of Diesel pump set 5HP	60,000
3	Diesel pump set & accessories like commander, Pipes, etc.	30,000
4	Water Storage	1,50,000
•	TOTAL	2,55,000
	t of Water per plant (2,55,000/5000)=Rs.51/- t of Water per Ha. =Rs.51,000/-	51,000
	1st Year Watering	
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc.for pumping Water-21 × 1000=	21,000
2	Watering 1000 Plants (April-June & Nov-Mar-8 Months) @ 200 plants/MD with 7 days rotation 20 MD× 8 Months=160 MD×311=	31,100
	Total	52,100
	2st Year Watering	
1	Recurring expenditure i.e. Diesel, Mobil, Engine Oil, etc. for pumping Water-21 × 1000=	21,000
	Maintenance Diesel pump set etc. @ 15 % of the installation cost.	7,650
2	Watering 1000 Plants (April-June & Nov-Mar-8 Months) @ 200 plants/MD with 7 days rotation 20 MD× 8 Months=160 MD×311=	49,760
	Total	78,410
	3rd Year Watering	
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water-21 × 1000=	21,000
	Maintenance Diesel pump set etc. @ 15 % of the installation cost.	7,650
2	Watering 1000 Plants (April-June & Nov-Mar-8 Months) @ 200 plants/MD with 7 days rotation 20 MD× 8 Months=160 MD×311=	49,760
	Total	78,410
	4th Year Watering	
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc.for pumping Water-21 × 1000=	21,000
	Maintenance Diesel pump set etc. @ 15 % of the installation cost.	7,650
2	Watering 1000 Plants (April-June & Nov-Mar-8 Months) @ 200 plants/MD with 7 days rotation 20 MD× 8 Months=160 MD×311=	49,760
	Total	78,410
	5th Year Watering	
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water-21 × 1000=	21,000
	Maintenance Diesel pump set etc. @ 15 % of the installation cost.	7,650
2	Watering 1000 Plants (April-June & Nov-Mar-8 Months) @ 200 plants/MD with 7 days rotation 20 MD× 8 Months=160 MD×311=	49,760
	Total	87,410

	Abstract										
Sl. No	Year	No. Person days	Labour cost @ Rs. 311/-per day	Material Cost	Total Cost (Rs.)						
1	0 th Year	0.0	0.00	51000.00	51000.00						
2	1st Year	100.0	31100.00	21000.00	52100.00						
3	2 nd Year	160.0	49760.00	28650.00	78410.00						
4	3rd Year	160.0	49760.00	28650.00	78410.00						
5	4 th Year	160.0	49760.00	28650.00	78410.00						
6	5 th Year	160.0	49760.00	28650.00	78410.00						
	Total	740.0	230140.00	186600.00	4,16,740.00						

Fencing Modal-F-ll

		wire mesh (250 Rm	t/Ha.)	as using Angle	Iron
		ATE Rs.311/-				•
Sl. No	Item of work	Preferable Period of Execution	Man days	Wages	Material Cost (Rs.)	Total Cost (Rs. Per Ha.)
		Oth Year (PPO		752.62	0.0	752.6
1	Earth work (Excavation of hole) in Hard soil at a distance 3mt. 0.40m × 0.40m × 0.40m= 0.064 × 84= 5.376 cum @Rs.140/cum=Rs.753.		2.42	752.62	0.0	752.6
2	Cement concrete(1:4:8) using 40mm BHG metal 84 × 0.40m × 0.40m × 0.10m= 1.344@3755.94/cum.		0	0	5,047.4	5,047.4
3	Angle Iron poli of size 50mm × 50mm × 6mm of height 2.40mt. 84 × 2.40= 201.60Sqmt. @ 4.50/ kg/ Sqmt.= 907.20kg @ 69.50 per kg.				63,050.0	63,050.0
4	Cement concrete(1:2:4) for fixing the Iron angle pole using 12mm BHG Chip 84×0.40m×0.40m×0.30m=4.032 cum @ 5486.77/cum				22,123.0	22,123.0
5	Cost of Chain link mess using 4mm Dia GI Wire having gap size 50mm×50mm. 250 Rmt.× 2.10mt.= 525sq.mt@331/Sqmt.=Rs.1,73,775				1,73,775.0	1,73,775.0
6	Double cost painting of Iron angle pole over a cost of primer using good quality enamale paint. 84 × 2.10 × 0.20= 35.28 Sqmt. @Rs.108.80 Sqmt.			-	3,838.0	3,838.0
7	Painting of GI chain link mess 250 × 2.10 × 2=1050/10=105 Sqmt.@ Rs.108.80 Sqmt.				11,424.0	11,424.0
8	Transportation of Chain link mess, Iron angle, Straightening & teeing of chain link mess etc,@ 2% of the total cost.				5,600.0	5,600.0
	Total		2.42	752.62	2,84,857.4	2,85,610.0
	Rate per running	mt. 2,85,610/	250=Rs			
		Year Mainten			11.	
1	No Maintenance is required	Sept./Oct	0	0	0	0
		Year Mainten	ance			
1	Maintenance od wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 ×1%=11.42 say Rs.11	Sept./Oct	0	0	11000	11000
		Year Mainter				
1	Maintenance od wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 ×1%=11.42 say Rs.11	Sept./Oct	0	0	11000	11000
		Year Mainten	ance		-	
1	Maintenance od wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 ×1%=11.42 say Rs.11	Sept./Oct	0	0	11000	11000

	5 th	Year Maintena	ince			
1	Maintenance od wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 ×1%=11.42 say Rs.11	Sept./Oct	0	0	11000	11000
	6th Year Maintenance					
1	Maintenance od wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 ×1%=11.42 say Rs.11	Sept./Oct	0	0	11000	11000
	7th Year Maintenance					
1	Maintenance od wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 ×1%=11.42 say Rs.11	Sept./Oct	0	0	11000	11000
	8th Year Maintenance					_
1	Maintenance od wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 ×1%=11.42 say Rs.11	Sept./Oct	0	0	11000	11000
	9th Year Maintenance					
1	Maintenance od wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 ×1%=11.42 say Rs.11	Sept./Oct	0	0	11000	11000
	10th Year Maintenance					
1	Maintenance od wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 ×1%=11.42 say Rs.11	Sept./Oct	0	0	11000	11000

Abstract

Sl. No.	Year	No. Person days	Labour cost @ Rs. 311/-per day	Material Cost	Total Cost (Rs.)
1	Oth Year	2.42	752.62	284857.4	285610.0
2	1st Year	0.0	0.0	0.0	0.0
3	2 nd Year	0.0	0.0	11000.0	11000.0
4	3rd Year	0.0	0.0	11000.0	11000.0
5	4 th Year	0.0	0.0	11000.0	11000.0
6	5 th Year	0.0	0.0	11000.0	11000.0
7	6 th Year	0.0	0.0	11000.0	11000.0
8	7st Year	0.0	0.0	11000.0	11000.0
9	8nd Year	0.0	0.0	11000.0	11000.0
10	9 rd Year	0.0	0.0	11000.0	11000.0
11	10 th Year	0.0	0.0	11000.0	11000.0
	Total	2.42	752.62	383857.4	3,84,610.0

Matrix for Model-1 A Conventional CA Plantation (AR) 1000 PLANTS PER Ha.

Total per Ha.	246454
2032-33 (10 th Year) Maintena	11727
3031-32 (9th Year) Maintenance	11169
2030-31 (8th Year) Maintenance	10638
2029-30 (7th Year) Maintenance	10130
2028-29 (6th Year) Maintenance	11027
2027-28 (5th Year) Maintenance	9189
2026-27 (4th Year) Maintenance	8752
2025-26 (3 rd Year) Maintenance	19137
2024-25 (2nd Year) Maintenance	25814
2023-24 (1st Year Creation)	105456
2022-23 (Pre- Plantation Operation)	23415
Year→	Cost of Plantation per Ha.

Matrix for (SMC)

(Pre- () Plantation Cr Operation)		97-5707	77-9707	87-/707	Total per
Plantation C Operation)	(1st Year (2nd Year)	(3rd Year)	(4th Year)	(5th Year)	Ha.
Operation)	_	Maintenance	Maintenance	Maintenance	
	N				
Cost of SMC per Ha. 0 22287	22287 3509	3686	3869	4064	37415

Matrix for Fencing Model-F-ll (Iron angle with Chain link wire mesh)

Total per Ha.	440299
2032-33 (10th Year) Maintenance	18814
2031-32 (9th Year) Maintenance	17917
2030-31 (8th Year) Maintenance	17065
2029-30 (7th Year) Maintenance	16252
2028-29 (6th Year) Maintenance	15477
2027-28 (5th Year) Maintenance	14741
2026-27 (4 th Year) Maintenance	14039
2025-26 (3rd Year) Maintenance	13371
2024-25 (2 nd Year) Maintenance	12732
2023-24 (1st Year) Creation	0
2022-23 (Pre-Plantation Operation)	299891
Year→	Cost of Fencin g per Ha.

Matrix for Watering Model-W-II (Diesel Pump set Fitted with Bore well per Ha.

000							
2022-23	4		2024-25	2025-26	2026-27	2027-28	Total per Ha.
re-Plantation (1st Year Creatio	Ξ	<u> </u>	(2nd Year)	(3rd Year)	(4th Year)	(5th Year)	
peration)		Ma	aintenance	Maintenance	Maintenance	Maintenance	
53550 57440			90761	05210	100072	105076	502208
			10/07	23310	7/0001	10201	302203

TOTAL FINANCIAL OUTLAY OF THE 10 YEARS PLANTATION PROGRAMME WITH

MAINTENANCE ONE TIME COST NORM

ABSTRACT

Sl. No	Item	Base Cost Per Ha. (Rs.)	Total Cost Per Hectare for 10 years plantation from 2024-25 to 2034-35(Rs.)	Total cost of 23.7064 Ha. from 2024-25 to 2034- 35 (Rs.)
1	Block Plantation	2,04,976/-	2,46,454/-	58,42,537/-
2	SMC	32,343/-	37,415/-	8,86,975/-
3	Fencing	3,84,610/-	4,40,299/-	1,04,37,904/-
4	Watering	4,16,740/-	5,02,209/-	1,19,05,567/-
	Total	1,038,669/-	12,26,377/-	2,90,72,983/- or 2,90,73,000/-

Divisional Forest Officer,
Dhenkanal Division.
Divisional Forest Officer
Dhenkanal Division