SCHEME FOR COMPENSATORY PLANTATION

For raising of 100 plants over 0.0625 Ha. in Block Model (AR) in front of Bharatpur Nature Awareness Centre inside Bharatpur RF of Chandaka-Dampara Wildlife Sanctuary

In lieu of Diversion of 0.247ha. (0.612 Ac.) of Forest Land allotted to Mayfair Hotels & Resorts Limited over Plot No.282(Pt) & 284(Pt) of Khata no.1428 in mouza Jayadev Vihar in Bhubaneswar Tahasil under Khordha District.

Project Cost: -1,65,480.00

Rupees One Lakh Sixty-Five Thousand Four Hundred Eighty) only

Divisional Forest Officer Chandaka Wildlife Division Bhubaneswar

COMPENSATORY AFFORESTATION

Introduction: -

As an environmental amelioration measure to minimise the adverse impact due to climate change & global warming, it is proposed to have plantation covering 0.0625 Ha. in Block Model (AR) in front of Nature Awareness Centre, Bharatpur inside Bharatpur RF of Chandaka-Dampara Wildlife Sanctuary. As such 100 plants are to be planted. Total cost of the Project for implementation of this intervention is Rs.1,65,480/- (Rupees One Lakh Sixty-Five Thousand Four Hundred Eighty only) having on approved Govt norm of the Principal Chief Conservator of Forest & HoFF, Odisha, Bhubaneswar.

Choice of Species: -

The Choice of Species for Plantation around water body (Spacing 4m x 4m)

i. Bara : Ficus benghalensis

ii. Oswatha : Ficus religiosa

iii. Jamun : Syzygium cumini

iv. Rai : Dellenia pentagyna

v. Kumbhi : Careya arborea vi. Kangara : Xylia xylocarpa

vii. Panas : Artocarpus heterophyllus

viii. Mango : Magnifera indica ix. Tentra : Albizzia procera

Fencing: - GI Chain link mess fencing is suggested around the plantations to reduce the biotic interference in the initial stage & to achieve better survival of the plantation. The estimated cost per 1 RKM is at Annexure-II. The total periphery of planting site is 0.12 RKM where it is suggested for fencing.

Year	210011		GI Mess wire	Total Cost in Rs.			
	Norm per Hectare in	Cost for 0.0625 ha.	0.12 RKM For 0.12km in l		183.		
	Rs.	in Rs.		Rs.			
0 th Yr	47023.20	2938.95	794093	95291.16	98230.11		
1 st Yr	230123.00	14382.6875	79409	9529.08	23911.7675		
2 nd Yr	1,22,278.00	7642.375	39704	4764.48	12406.855		
3 rd Yr	12465.00	779.0625			779.0625		
4 th Yr	5,878.00	367.375			367.375		
5 th Yr	5,878.00	367.375			367.375		
6 th Yr	5,878.00	367.375	1		367.375		
7 th Yr	5,878.00	367.375			367.375		
8 th Yr	5,878.00	367.375			367.375		
9 th yr	5,878.00	367.375			367.375		
10 th Yr	5,878.00	367.375			367.375		
Total	453035.20	28314.7		109584.72	137899.42		
	137900.00						
	27580.00						
	165480.00						
	(Rupees One Lakh Sixty Five Thousand Four Hundred Eighty)						

Assistant Conservator of Forests Chandaka Wildlife Division Bhubaneswar Divisional Forest Officer Chandaka Wildlife Division Bhubaneswar

Checked

Asst. Conservator of Forests O/o. Regional Chief Conservator of Forests, Bhubaneswar Circle Regional Chief Conservator of Forests Bhubaneswar Circle

Annexure-I

Cost Norm for Block Plantation.

Spacing 2.5m x 2.5m; Number of plants @1600 per Hectare.

COST NORM FOR BLOCK PLANTATION @ 1600 PLANTS PER HECTARE (18 MONTHS OLD SEEDLING) Wage rate: Rs.311/Day.

Wage rate: Rs.311/Day.							
Item of Works	Period of excution	Mandays	Labour Cost @ Rs.311.00	Material cost	Total in Rs.		
2	3	4	5	6	7		
Preparato	ry Operation	(0 th Year)					
1 Survey, Demarcation and Pillar Posting, GPS	Nov/Dec	2	622.00	0.00	622.00		
Reading with mapping							
2 Site Preparation	Nov/Dec	12	3732.00	0.00	3732.00		
3 Alignment & Stacking of Pits	Jan/Feb	2	622.00	0.00	622.00		
Excavation of pits- 45cm x 45 cm x 45 cm in	Feb/Mar	128	39808.00	0.00	39808.00		
hard soil with vertical cut edges to make an			5				
uniform cube & heaping the excavated soil out							
side the pits							
Total		144	44784.00	0.00	44784.00		
5 Monitoring & Supervision charge 5% of the total cost	7 11.6			-< ,	2239.2		
Grand Total		144	44784.00	0.00	47023.20		
	Operation (1 ^s			```			
6 Procurement Cost (18 month Old Seedling)	July	0	0.00	61318.40	61318.40		
©Rs. 34.84/-for 1760 seedlings (1600+160)	Jary	"	0.00	01310.10	01010110		
from Central Nursery of Chandaka Wildlife) 10	*		
Division				1 1 2 2			
7 Carriage and planting, casualty replacement &	July/Aug	21	6531.00	0.00	6531.00		
application of Insecticides, manure etc.		2 go =	5				
8 Cost of Insecticide & Bio-fertilizer		0	0.00	3232.00	3232.00		
9 1st Weeding (Complete weeding)	Aug/Sept	7	2177.00	0.00	2177.00		
O Application of Bio-fertilizer	Aug/Sept	5	1555.00	0.00	1555.00		
1 2nd Weeding (Complete weeding)	Sept/Oct	5	1555.00	0.00	1555.00		
2 Soil Working (50 cms radius around plants)	Sept/Oct	7	2177.00	0.00	2177.00		
3 Soil conservation measures in form of	Sept/Oct	10	3110.00	0.00	3110.00		
Staggered trenches of dimension 2 m x 0.5 m x					2 9		
0.5 m @30nos per ha.	***						
4 Fire line tracing & inspection path	Feb/Mar	3	933.00	0.00	933.00		
5 Watch and ward	Aug-Mar	7	2177.00	0.00	2177.00		
6 Watering of Plants	Sept-Mar= 7	@Rs12.00p	134400	0.00	134400.00		
	month	er Plant per		1			
		month	45,645,00	CATTO	210105 40		
Total		65	154615.00	64550.40	219165.40		
7 Monitoring & Supervision charge 5% of the total cost			0	0	10958.27		

Grand Total		65	154615.00	64550.40	230123.67
Maintena	nce Operation	(2 nd Year)			
Casualty Replacement including cost of seeding, carriage(10%)	July/Aug	4	1244.00	5574.40	6818.40
9 Complete weeding	Sept/Oct	6	1866.00	0.00	1866.00
Cost of Bio-fertilizer & Insecticide for 160			0.00	2752.00	2752.00
1 Application of Bio-fertilizer & Insecticide	Sept/Oct	4	1244.00	0.00	1244.00
2 Scil Working (50 cms radius around plants)	Oct/Nov	7	2177.00	0.00	2177.00
Fire line Tracing (2 mtr wide fireline over 400 mtr long)	Feb/March	3	933.00	0.00	933.00
Watch and ward (Whole year)	April-March	15	4665.00	0.00	4665.00
5 Watering of Plants	April- June & Sept- March =10 month	@Rs6/- per Plant per month	96000.00	0.00	96000.00
Total		59	108129.00	8326.40	116455.40
Monitoring & Supervision charge 5% of the		0	0	0	5822.77
Grand Total		59	108129.00	8326.40	122278.17
Maintena	nce Operation	(3 rd Year)			
7 Complete weeding and application of Bio-	Aug/Sept	7	2177.00	0.00	2177.00
8 Cost of Bio-fertilizer	7.46/300	0	0.00	1920.00	1920.00
9 Scil Working (50 cms radius around plants)	Oct/Nov	7	2177.00	0.00	2177.00
Fireline Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0.00	933.00
1 Watch and ward (Whole year)	April-March	15	4665.00	0.00	4665.00
Total of 3 rd Year:-		32	9952.00	1920.00	11872.00
Monitoring & Supervision charge 5% of the total cost		0	0	0	593.6
Grand Total		32	9952.00	1920.00	12465.60
Maintena	nce Operation				
Fire line Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0	933.00
4 Watch and ward (Whole year)	April-March	15	4665.00	0	4665.00
Total of 4 th Year:-		18	5598.00	0	5598.00
Monitoring & Supervision charge 5% of the total cost		0	0	0	279.9
Grand Total		18	5598.00	0.00	5877.90
Maintena	nce Operation	(5 th Year)			
Fireline Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0	933.00
7 Watch and ward (Whole year)	April-March	15	4665.00	0	4665.00
Total of 5 th Year:-		18	5598.00	0	5598.00

Monitoring & Supervision charge 5% of the total cost		0	0	0	279.9
Grand Total		18	5598.00	0.00	5877.90
Maintena	nce Operation (6 th Year)			
Freine Tracing (2 mtr wide fireline over 400	Feb/March	3	933.00	0	933.00
Triong) & cultural operation Match and ward (Whole year)	April-March	15	4665.00	0	4665.00
Total of 6 th Year:-		18	5598.00	0	5598.00
Maniforing & Supervision charge 5% of the		0	0	0	279.9
Grand Total		18	5598.00	0.00	5877.90
Maintena	nce Operation (7 th Year)			
Fireline Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0	933.00
Watch and ward (Whole year)	April-March	15	4665.00	0	4665.00
Total of 7 th Year:-		18	5598.00	0	5598.00
Maniforing & Supervision charge 5% of the		0	0	0	279.9
Grand Total		18	5598.00	0.00	5877.90
Maintena	nce Operation (8 th Year)	 		
Freine Tracing (2 mtr wide fireline over 400	Feb/March	3	933.00	0	933.00
mtr long) & cultural operation					
Watch and ward (Whole year)	April-March	15	4665.00	0	4665.00
47		18	5598.00	0	5598.00
Monitoring & Supervision charge 5% of the total cost		0	0	0	279.9
Grand Total		18	5598.00	0.00	5877.90
Maintena	nce Operation (9 th Year)			
Fireline Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0	933.00
Watch and ward (Whole year)	April-March	15	4665.00	0	4665.00
Total of 9 th Year:-		18	5598.00	0	5598.00
Monitoring & Supervision charge 5% of the total cost		0	0	0	279.9
Grand Total		18	5598.00	0.00	5877.90
Maintenar	nce Operation (1	0 th Year)			
Fireline Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0	933.00
Watch and ward (Whole year)	April-March	15	4665.00	0	4665.00
Total of 10 th Year:-		18	5598.00	0	5598.00
Monitoring & Supervision charge 5% of the total cost		0	0	0	279.9
Grand Total		18	5598.00	0.00	5877.90

ABSTRACT							
	Year	No of Man Days	Labour Cost	Material Cost	Monitoring & Supervision charge 5% of the total cost	Total Cost	
Oth Year		144	44784.00	0.00	2239.2	47023.20	
1 st Year		65	154615.00	64550.40	10958.27	230123.67	
2nd Year	8	59	108129.00	8326.40	5822.77	122278.17	
3rd Year		32	9952.00	1920.00	593.6	12465.60	
4th Year		18	5598.00	0.00	279.9	5877.90	
5th Year	¥	18	5598.00	0.00	279.9	5877.90	
6th Year		18	5598.00	0.00	279.9	5877.90	
7th Year		18	5598.00	0.00	279.9	5877.90	
8th Year		18	5598.00	0.00	279.9	5877.90	
9th Year		18	5598.00	0.00	279.9	5877.90	
10th Year		18	5598.00	0.00	279.9	5877.90	
	Total	426	356666.00	74796.80	21573.14	453035.94	

Assistant Conservator of Forests Chandaka Wildlife Division Bhubaneswar Divisional Forest Officer Chandaka Wildlife Division Bhubaneswar

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> Asst. Conservator of Forests O/o. Regional Chief Censervator of Forests, Bhubaneswar Circle

Approved

Regional Chief Conservator of Forests Bhubaneswar Circle

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DETAILED ESTIMATE FOR GI CHAIN LINK FENCING WITH R.C.C. POST							
Length = 1.0 RKM. wage rate – Rs. 311.00							
SI No.	Description	Rate in Rs	Quantity	Amount			
1	Digging of earth for creation of Pits for fixing of R.C.C. Post at 2.50 mtr.	184.11	53.46	9842.5206			
	Interval and two support post at 50.0 meter interval.						
	440 x 0.60m x 0.45m x 0.45m = 53.46 cum						
2	Cost of R.C.C. post With 4 nos. 6mm M.S. Rod frame and ring at 30 cm interval	600	440	264000			
3	Carriage of 440 nos. R.C.C. post to work site	50	440	22000			
4	Fixing of R.C.C. post with earth and metal	50	440	22000			
	Cost of G.I. Chain link made from hot deep 70	300.9	1500	451350			
	gsm 3.15 mm G.I. wire mesh size 50mm x 50						
	mm for 1000mtr. x 1.5 mtr=1500 sq meter						
6	Fixing of G.I. Chain link as stated above	311	30	9330			
	Sub Total	FL WELL		778522.5206			
			Labour Cess 1%	7785.225206			
			Contingency 1%	7785.225206			
		Total 1 st year		794092.971			
		2 nd year	@10%	79409.2971			
		maintenance					
		3 rd year maintenance	@5%	39704.64855			
		G. Total		913206.9167			
		G. Total		913200.9107 or			
				913207.00			
				313207.00			

(Rupees Nine Lakh Thirteen Thousand Two Hundred Seven) only.

Asst. Conservator of Forests
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Divisional Forest Officer Chandaka (WL) Division Bhubaneswar

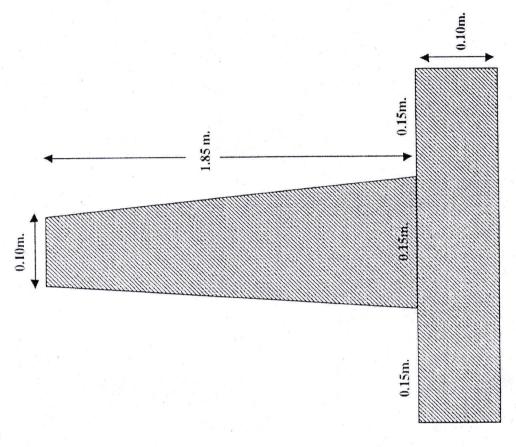
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Regional Chief Conservator of Forests Bhubaneswar Circle

Asst. Conservator of Forests O/o. Regional Chief Conservator of Forests, Bhubaneswar Circle

Plan for the RCC Fencing Post

 $(Length=1.95m,\ Top\ Width=0.10m,\ Bottom\ Width=0.15m,\ Thickness=0.10m.)$



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2.5 m. 2.5 m. 2.5 m. 1.5 Mtr Asst. Conservator of Forests Chandaka Wildlife Division Divisional Forest Officer Chandaka Wildlife Division BHUBANESWAR Bhubaneswar

Front View of G.I. Chain Link Fencing with R.C.C. post