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 0.094ha. (0.232 Ac.) of Forest Land allotted to Mayfair Hotels & Resorts Limited over Plot No. 284(Pt) of Khata no.1427 in mouza Jayadev Vihar, Unit-16 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	Block Plant	ation	GI Mess wir	e Fencing. Over	Total Cost in	
			0.12 RKM		Rs.	
	Norm per Hectare in C	Cost for 0.0625 ha.		For 0.12km in l		
	Rs.	in Rs.		Rs.		
0 th Yr	47023.20	2938.95	794093	95291.16	98230.11	
1 st Yr	230123.0067	14382.6875	72 79409	9529.08	23911.7675	
2 nd Yr	1,22,278.00 17	7642.875	3 8 39704	4764.48	12406.855 8	
3 rd Yr	12465,0060	779.0625)10		779.0625	
4 th Yr	5,878.00	367.37		0.	367.37₺	
5 th Yr	5,878.00	367.375			367.375	
6 th Yr	5,878.00	367.375			367.375	
7 th Yr	5,878.00	367.37			367.37	
8 th Yr	5,878.00	367.37			367.37 5	
9 th yr	5,878.00	367.37			367.375	
10 th Yr	5,878.00	367.37	= -		367.375	
Total	453035.20	28314.7	4	109584.72	137899.4	
	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 Wikilife Division Bhubaneswar

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.

L D.	Item of Works	Period of excution	Mandays 4	Labour Cost @ Rs.311.00	Material cost	Total in Rs.
	2	3	<u> </u>	3	0	
	Survey, Demarcation and Pillar Posting, GPS Reading with mapping	ry Operation (Nov/Dec	2 Year)	622.00	0.00	622.00
_	Site Preparation	Nov/Dec	12	3732.00	0.00	3732.00
	4 snment & Stacking of Pits	Jan/Feb	2	622.00	0.00	622.00
	Excavation of pits- 45cm x 45 cm x 45 cm in hard soil with vertical cut edges to make an uniform cube & heaping the excavated soil out side the pits	Feb/Mar	128	39808.00	0.00	39808.00
Ī	Total		144	44784.00	0.00	44784.00
5	Monitoring & Supervision charge 5% of the total cost					2239.2
	Grand Total		144	44784.00	0.00	47023.20
	Planting	Operation (1 ^s	t Year)		5	
6	Procurement Cost (18 month Old Seedling) @Rs.34.84/-for 1760 seedlings (1600+160) from Central Nursery of Chandaka Wildlife Division	July	0	0.00	61318.40	61318.40
7		July/Aug	21	6531.00	0.00	6531.00
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
10	Application of Bio-fertilizer	Aug/Sept	5	1555.00	0.00	1555.00
11	2nd Weeding (Complete weeding)	Sept/Oct	5	1555.00	0.00	1555.00
12	Soil Working (50 cms radius around plants)	Sept/Oct	7	2177.00	0.00	2177.00
13	Soil conservation measures in form of Staggered trenches of dimension 2 m x 0.5 m x 0.5 m @30nos per ha.	Sept/Oct	10	3110.00	0.00	3110.00
14	Fire line tracing & inspection path	Feb/Mar	3	933.00	0.00	933.00
	Watch and ward	Aug-Mar	7	2177.00	0.00	2177.00
16	Watering of Plants	Sept-Mar= 7 month	@Rs12.00p er Plant per month	134400	0.00	134400.00
	Total		65	154615.00	64550.40	219165.40
17	Monitoring & Supervision charge 5% of the total cost			0	0	10958.27

Grand Total		65	154615.00	64550.40	230123.67
Maintenan	ce Operation	2 nd Year)			16
18 Casualty Replacement including cost of seeding, carriage(10%)	July/Aug	4	1244.00	5574.40	6818.40
19 Complete weeding	Sept/Oct	6	1866.00	0.00	1866.00
20 Cost of Bio-fertilizer & Insecticide for 160 Plants			0.00	2752.00	2752.00
21 Application of Bio-fertilizer & Insecticide	Sept/Oct	4	1244.00	0.00	1244.00
22 Soil Working (50 cms radius around plants)	Oct/Nov	7	2177.00	0.00	2177.00
23 Fire line Tracing (2 mtr wide fireline over 400 mtr long)	Feb/March	3	933.00	0.00	933.00
24 Watch and ward (Whole year)	April-March	15	4665.00	0.00	4665.00
25 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
25 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)			
27 Complete weeding and application of Bio-	Aug/Sept	7	2177.00	0.00	2177.00
28 Cost of Bio-fertilizer	1.190/	0	0.00	1920.00	1920.00
29 Soil Working (50 cms radius around plants)	Oct/Nov	7	2177.00	0.00	2177.00
30 Fireline Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0.00	933.00
31 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
32 Monitoring & Supervision charge 5% of the		0	0	0	593.6
total cost Grand Total		32	9952.00	1920.00	12465.60
	nce Operation	(4 th Year)			
33 Fire line Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0	933.00
34 Watch and ward (Whole year)	April-March	15	4665.00	0	4665.00
Total of 4 th Year:-		18	5598.00	0	5598.00
35 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)			
36 Fireline Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0	933.00
37 Watch and ward (Whole year)	April-March	15	4665.00	0	4665.00
					■ No. 1000 W. 10

Monitoring & Supervision charge 5% of the total cost	8.7 3.	0	0	0	279.9
Grand Total		18	5598.00	0.00	5877.90
Maintena	nce Operation (6	s th Year)		And the state of	
Fireline Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0	933.00
40 Watch and ward (Whole year)	April-March	15	4665.00	0	4665.00
Total of 6 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 (7	7 th Year)			
42 Fireline Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0	933.00
43 Watch and ward (Whole year)	April-March	15	4665.00	0	4665.00
Total of 7 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 (8	3 th Year)		3	
45 Fireline Tracing (2 mtr wide fireline over 400	Feb/March	3	933.00	0	933.00
mtr long) & cultural operation	,	ž		s,	
46 Watch and ward (Whole year)	April-March	15	4665.00	0	4665.00
47		18	5598.00	0	5598.00
48 Monitoring & Supervision charge 5% of the total cost		0	0	0	279.9
Grand Total		18	5598.00	0.00	5877.90
	nce Operation (9 th Year)			
49 Fireline Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0	933.00
50 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		T		000.00
52 Fireline Tracing (2 mtr wide fireline over 400 mtr long) & cultural operation	Feb/March	3	933.00	0	933.00
53 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





No of N Days		Labour Cost	Material	Monitoring	Total Cost
			Cost	& Supervision charge 5% of the total cost	Total Cost
144		44784.00	0.00	2239.2	47023.20
65		154615.00	64550.40	10958.27	230123.67
59		108129.00	8326.40	5822.77	122278.17
32		9952.00	1920.00	593.6	12465.60
18		5598.00	0.00	279.9	5877.90
18		5598.00	0.00	279.9	5877.90
18		5598.00	0.00	279.9	5877.90
18	1 4 1	5598.00	0.00	279.9	5877.90
18		5598.00	0.00	279.9	5877.90
18		5598.00	0.00	279.9	5877.90
18		5598.00	0.00	279.9	5877.90
tal 426		356666.00	74796.80	21573.14	453035.94

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

Bhubaneswar

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

checked facad

Approved

Regional Chief Conservator of Forest

	Annex	ure-II		
	DETAILED ESTIMATE FOR GI CHAII	N LINK FENCING	WITH R.C.C. POST	
	Length = 1.0 RKM. w			
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
5	Cost of G.I. Chain link made from hot deep 70 gsm 3.15 mm G.I. wire mesh size 50mm x 50 mm for 1000mtr. x 1.5 mtr=1500 sq meter	300.9	1500	451350
6	Fixing of G.I. Chain link as stated above	311	30	9330
0	Sub Total			778522.5206
	345 1044		Labour Cess 1%	7785.225206
		0	Contingency 1%	7785.225206
		Total 1 st year		794092.971
		2 nd year maintenance	@10%	79409.2971
		3 rd year maintenance	@5%	39704.64855
		G. Total		913206.9167
				or
				913207.00

Asst. Conservator of Forests
Chandaka Wildlife Division
BHUBANESWAR

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Asst. Conservator of Forests O/o. Regional Chief Censervator of Forests, Bhubaneswar Circle Divisional Forest Officer Chandaka Wildlife Division Bhubaneswar

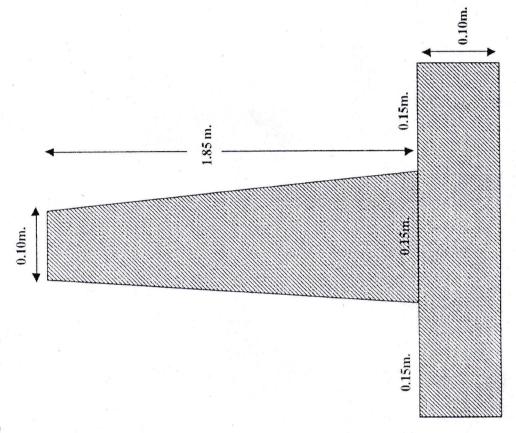
Approved

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

Regional Chief Conservator of Forests Bhubaneswar Circle

Plan for the RCC Fencing Post

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



Asst. Conservator of Forests Chandaka Wildlife Division BHUBANESWAR Divisional Forest Officer Chandaka Wildlife Division Bhubaneswar

Ci.L 2.5 m. 2.5 m. 2.5 m. TIM S.F <u>ن</u> ن Aest. 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