

SCHEME FOR COMPENSATORY PLANTATION

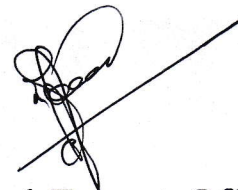
For raising 0.4 RKM (0.1km x 4 ROWS) @ 250 plants per km
=100 plants

(Plantation around Bhimakhala Waterbody of Bharatpur
RF of Chandaka-Dampara Wildlife Sanctuary)

In lieu of Diversion of 0.151ha. (0.372 Ac.) of Forest Land
allotted to Central Chinmaya Mission Trust over Plot No.03(part)
Khata no.186 in mouza Paikanagar in Bhubaneswar Tahasil
under Khordha District.

Project Cost: - 3,60,346.00

(Rupees Three Lakh Sixty Thousand Three Hundred Forty-Six) 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 0.4 km around Bhimakhala Waterbody of Bharatpur RF of Chandaka-Dampara Wildlife Sanctuary. All total there will be 0.4 RKM (0.1 X 4 ROWs) @ 250 plants per RKM. As such 100 plants are to be planted. Total cost of the Project for implementation of this intervention is Rs.3,60,346/- (Rupees Three Lakh Sixty Thousand Three Hundred Forty-Six 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: - The proposed Plantation over 0.4RKM is coming around Bhimakhala waterbody inside Bharatpur RF of Chandaka-Dampara Wildlife Sanctuary. Gabion made up of Iron wire mess ₹1600/- per plant is suggested to reduce the biotic interference in the initial stage and to achieve better survival percentage of the Plantation around Water body.

PLANTATION AROUND BHIMAKHALA WATERBODY OF BHARATPUR RF OF CHANDAKA WILDLIFE SANCTUARY						
(250 Plants per RKM, Spacing of 4 metres between plants)						
WAGE RATE ₹ 311 /- PER DAY						
Sl.	Item of Works	Preferable Period of Execution	Labour in Mandays	Labour Cost (₹)	Material Cost (₹)	Total Cost in (₹)
A.0TH YEAR ADVANCE WORK						
1	Nursery Cost (18 month Old Seedling) @Rs.34.84/- for 275 seedling				9581	9581
2	Survey, demarcation, site preparation, alignment & Stacking	Feb-Mar	4	1244	50	1294
3	Digging of pits (45 cm x 45 cm)	Feb-Mar	15	4665	0	4665
4	Contingency		0	0	175	175
	TOTAL		19	5909	9806	15715
5	Monitoring & Supervision charge 5% of the total cost		0	0	0	786
	GRAND TOTAL		19	5909	9806	16501
B. 1ST YEAR CREATION						
1	Cost of transportation of seedlings to the site of planting @ Rs.6 per seedling		0	0	1650	1650
2	CDM (125 cft. @ 0.5 cft per pit) @ Rs. 6 per seedling	Feb-March	0	0	1875	1875
3	Feeling up of CDM in pits	June-July	1	311	0	311
4	Planting and seedlings with short carriages including casualty replacement & application of basal dose NPK @ 50 gms/per plant @ Rs.24/ kg= Rs.300/- & granular insecticide 5 gms per pit @ Rs.80/- per kg= Rs.100.00	July-Aug	5	1555	400	1955
5	1st weeding (uprooting) within 45 cm radius	Aug-Sept	8	2488	0	2488
6	Soil working 15 cm deep & 50 cm radius around the plant with application of chemica; fertilizer (urea/DAP/NPK etc.)	Sept-Oct	5	1555	800	2355
7	Provision of soil & water conservation measures by providing circular trench in flat land & half moon trench in slope area at a distance of 0.5 mt from the root of the plant	Sept-Oct	3	933	0	933
8	2nd Weeding within 50cm radius	Sept-Oct	5	1555	0	1555
9	Watering 1st Dec to 31st March(4 month)(10 days per month) including labour, transportation, hire charges of tractor/tanker @ Rs.57.40 per seedling	Dec-March	0	0	14350	14350
10	Watch & Ward July to March 270 days per RKM	July-March	60	18660	0	18660

11	Contingency		0	0	100	100
	TOTAL		87	27057	19175	46232
13	Monitoring & Supervision charge 5% of the total cost	0	0	0	0	2311.6
	GRAND TOTAL		87	27057	19175	48544

*Gabion made up of iron wiremess @ Rs.1600/- per plant extra in Urban Areas.

C. 2ND YEAR MAINTENANCE

1	10% casualty replacement including cost of seedlings 25 Nos. @ Rs.34.84per seedling	July-Aug	3	933	871	1804
2	Weeding, soil working and application of chemical fertilizer (urea/DAP/NPK etc.)	Aug-Sept	15	4665	1400	6065
3	Watering 1st April to 15th June & 1st Dec to 31 March(195 days) including labour(5 days per month), transportation, hire charges of tractor/tanker @ Rs.49.00 per seedling	April-15 th June Dec-Mar	0	0	12250	12250
4	Watch & Ward April to March (365 days) per RKM	April-Mar	80	24880	0	24880
5	Contingency		0	0	1115	1115
	TOTAL 2ND YEAR		98	30478	15636	46114
6	Monitoring & Supervision charge 5% of the total cost		0	0	0	2306
	GRAND TOTAL		98	30478	15636	48420

*Maintenance Gabion made up of iron wiremess @ Rs.50/- per plant extra in Urban Areas

D. 3RD YEAR MAINTENANCE

1	Maintenance of plants including cultural operation, weeding & soil working	Sept-Oct	10	3110	0	3110
2	Watch & Ward April to March (365 days) per RKM	April-March	80	24880	0	24880
	TOTAL 3RD YEAR		90	27990	0	27990
3	Monitoring & Supervision charge 5% of the total cost		0	0	0	1400
	GRAND TOTAL		90	27990	0	29390

*Maintenance Gabion made up of iron wiremess @ Rs.50/- per plant extra in Urban Areas

D. 4TH YEAR MAINTENANCE

1	Watch & Ward April to March (365 days) per RKM	April-March	80	24880	0	24880
	TOTAL 4TH YEAR	0	80	24880	0	24880
2	Monitoring & Supervision charge 5% of the total cost	0	0	0	0	1244
	GRAND TOTAL		80	24880	0	26124

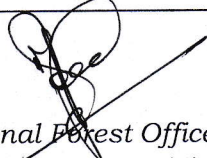
D. 5TH YEAR MAINTENANCE

1	Watch & Ward April to March (365 days) per RKM	April-March	80	24880	0	24880
	TOTAL 5TH YEAR	0	80	24880	0	24880
2	Monitoring & Supervision charge 5% of the total cost	0	0	0	0	1244
	GRAND TOTAL		80	24880	0	26124

D. 6TH YEAR MAINTENANCE						
1	Watch & Ward April to March (365 days) per RKM	April-March	80	24880	0	24880
	TOTAL 6TH YEAR	0	80	24880	0	24880
2	Monitoring & Supervision charge 5% of the total cost	0	0	0	0	1244
	GRAND TOTAL		80	24880	0	26124
D. 7TH YEAR MAINTENANCE						
1	Watch & Ward April to March (365 days) per RKM	April-March	80	24880	0	24880
	TOTAL 7TH YEAR	0	80	24880	0	24880
2	Monitoring & Supervision charge 5% of the total cost	0	0	0	0	1244
	GRAND TOTAL		80	24880	0	26124
D. 8TH YEAR MAINTENANCE						
1	Watch & Ward April to March (365 days) per RKM	April-March	80	24880	0	24880
	TOTAL 8TH YEAR	0	80	24880	0	24880
2	Monitoring & Supervision charge 5% of the total cost	0	0	0	0	1244
	GRAND TOTAL		80	24880	0	26124
D. 9TH YEAR MAINTENANCE						
1	Watch & Ward April to March (365 days) per RKM	April-March	80	24880	0	24880
	TOTAL 9TH YEAR	0	80	24880	0	24880
2	Monitoring & Supervision charge 5% of the total cost	0	0	0	0	1244
	GRAND TOTAL		80	24880	0	26124
D. 10TH YEAR MAINTENANCE						
1	Watch & Ward April to March (365 days) per RKM	April-March	80	24880	0	24880
	TOTAL 10TH YEAR	0	80	24880	0	24880
2	Monitoring & Supervision charge 5% of the total cost	0	0	0	0	1244
	GRAND TOTAL		80	24880	0	26124
ABSTRACT						
Sl. No.	Year of operation	No. of Person Days	Labour cost @ ₹ 311/- per day	Material cost (₹)	Monitoring & Supervision charge 5% of the total cost	Total cost in (₹)
1	0TH YEAR PLANTING	19	5909	9806	786	16501
2	1ST YEAR PLANTING	87	27057	19175	2312	48544
3	2ND YEAR MAINTENANCE	98	30478	15636	2306	48420
4	3RD YEAR MAINTENANCE	90	27990	0	1400	29390
5	4TH YEAR MAINTENANCE	80	24880	0	1244	26124
6	5th YEAR MAINTENANCE	80	24880	0	1244	26124
7	6th YEAR MAINTENANCE	80	24880	0	1244	26124
8	7th YEAR MAINTENANCE	80	24880	0	1244	26124
9	8th YEAR MAINTENANCE	80	24880	0	1244	26124
10	9th YEAR MAINTENANCE	80	24880	0	1244	26124
11	10th YEAR MAINTENANCE	80	24880	0	1244	26124
	TOTAL	854	265594	44617	15511	325722

* Iron wiremess Gabion @ ₹ 1600 /- per plant extra

Plantation Cost for 100 plant =	130288.62			
Cost of Gabion for 100 plants ₹1600 per plant =	160000.00			
2nd Year Gabion Repair =	5000.00			
3rd Year Gabion Repair =	5000.00			
Add Escalation Cost (20%) =	60057.60			
TOTAL=	360346.22	or Rs. 3,60,346.00		
(Rupees Three Lakh Sixty Thousand Three Hundred Forty Six)Only				



Divisional Forest Officer
Chandaka Wildlife Division
Bhubaneswar

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Asst. Conservator of Forests
Chandaka Wildlife Division
BHUBANESWAR

Checked

ASST. CONSERVATOR OF FORESTS
O/p. the Regional Chief Conservator
of Forests, Bhubaneswar

Approved


Regional Chief Conservator of Forests
Bhubaneswar Circle