

SCHEME FOR COMPENSATORY AFFORESTATION OVER AN AREA OF 53.60 HA IN DEGREDED FOREST LAND IDENTIFIED IN BATASAR PRF UNDER DABUGAON RANGE OF NAWARANGAPUR FOREST DIVISION FOR DIVERSION OF 22.253HA OF FOREST LAND FOR THE PURPOSE OF CONSTRUCTAION OF 132KV TRANSMISSION LINE FROM 132/33KV GRID SUB-STATION AT DABUGAON TO 220/132/133KV GRID SUB-STATION AT JAYAPATNA BY ODISHA POWER TRANSMISSION CORPORATION LIMITED, RAYAGADA, DISTRICT RAYAGADA, STATE ODISHA.

PREPARED BY

**DIVISIONAL FOREST OFFICER
NAWARANGAPURFOREST DIVISION
NAWARANGAPUR**

ELEMENTS OF THE SCHEME FOR COMPENSATORY AFFORESTATION

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CHAPTER-I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL.

M/s OPTCL Rayagada have a proposal for construction of 132KV Transmission line from 132/33KV Grid Sub-Station at Dabugaon to 220/132/33KV Grid Sub-Station at Jayapatna. The 220KV Transmission line system in the nearby District like Nawarangapur, Kandhamal, Sunepur & Nuapada are very weak. For better Transmission planning, it is also advisable to have 220KV system backup integrated with 132KV system. In this case there is a 132/33KV Grid & Dabugaon generating power supply from 132KV SC line from Tentulikhun Sub-Station passes through hilly terrain and deep forest vulnerable to break down of this line and any moment. OPTCL is now constructing 132KV Dabugaon Jayapatna line which will act as inter connecting line between two distribution Zones i.e. SOUTHCO & WESCO.

In order to eradicate transmission loss and low voltage problems in the southern part of the state, it is felt essential to go for installation of new 2 x 100 MVA & 2 x 20 MVA, 220/132/33KV Grid Sub-Station at Jayapatna. This will help in minimizing power interruption, improvement in voltage profile and to meet the future low demand in this area, besides minimizing losses in the existing system. This system also fulfill the requirement of the additional power to these areas. Therefore the power transmitted through this line will boost the Small Industries and Agricultural growth of the area.

Since the project is involving the forest land and user agency has submitted the Forest Diversion Proposal over an area of 22.253Ha under FC Act, 1980. As per guideline of MoEF & CC, Govt. of India the user agency shall identify equivalent of non forest land / twice the degraded forest land for Compensatory Afforestation. Accordingly an area of 53.60 Ha in degraded forest land (Twice in extent of the forest area being diverted) identified in Batasar PRF under Dabugaon Range of Nawarangapur Forest Division.

The Present Scheme aims at preparation of Site Specific Compensatory Afforestation Scheme over an area 53.60 Ha in Degraded Forest Land identified in Batasar PRF under Dabugaon Range of Nawarangapur Forest Division with maintenance a period of 10(Ten) years.

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CHAPTER-II

DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION

A - LAND IDENTIFICATION AND JOINT VERIFICATION OF THE IDENTIFIED SITE.

The site for Compensatory Afforestation has been identified in Batasar PRF under Dabugaon Range of Nawarangapur Forest Division over an area of 53.60 Ha and the area has jointly verified by the Forest Range Officer Dabugaon Range, Forester Jatabali Section and the User Agency. The above identified land has been kept reserved in favor of M/S OPTCL Rayagada by the Divisional Forest Officer, Nawarangapur Forest Division for taking of Compensatory Afforestation.

B - INFORMATION ON NON-ENCROACHMENT AND NON-ENCUMBRANCE.

The Range Officer Dabugaon Range has verified and Inform that regarding non-encroachment and non-encumbrance on the identified Degraded Forest Land for raising Compensatory Afforestation.

C- INFORMATION ON LAND STATUS.

The Land Status identified and allowed for Compensatory Afforestation is furnished here under.

Sl No	Name of the Forest Division	Name of the Range	Name of the PRF	Area in Ha
1.	Nawarangapur Forest Division	Dabugaon	Batasar	53.60 Ha.

D - SUITABILITY OF IDENTIFIED SITE FOR COMPENSATORY AFFORESTATION.

The Identified land is free from encroachment and encumbrance. The Identified land is within Batasar PRF. The area is situated in gentle slope with existing SAL crop with its associate species.

The topography of the area is mainly gentle slope with eroded soil profile having exposed rocks at places necessitating Soil Conservation Measures. However good depth Soil is still available which is conducive for plantation with suitable Soil Conservation Measures. The average temperature varies from 14°C minimum in December & 45°C maximum in May. The annual rain fall varies from 1100mm to 1450mm. The maximum rain fall is received during the rainy season from July to September. The identified land is therefore taken up for Compensatory Afforestation in AR model (1000 no of seedlings/ Ha) over an area of 53.60 Ha in Batasar PRF with site specific SMC measures.

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CHAPTER-III

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

A - TOPOSHEET SHOWING COMPENSATORY AFFORESTATION SITE.

The identified degraded Forest Land over an area of 53.60 Ha in Batasar PRF has been shown in Topo Sheet No. E44E7.

B - GPS COORDINATES GPS MAP OF THE COMPENSATORY AFFORESTATION SITE.

The area has been demarcated through GPS survey and RCC pillars will be posted around the identified area and the same has been depicted in the Toposheet.

GPS survey data showing latitude and longitude of each point and their chainage with bearing is also enclosed in the Map prepared thereon (Map enclosed).

CHAPTER-IV

AGENCY RESPONSIBLE FOR COMPENSATORY AFFORESTATION

A - AGENCY RESPONSIBLE FOR PLACEMENT OF FUNDS.

The user agency shall provide funds for raising Compensatory Afforestation as per approved scheme.

B - AGENCY RESPONSIBLE FOR EXECUTION OF COMPENSATORY AFFORESTATION.

The territorial wing of the Forest Department i.e. Divisional Forest Officer Nawarangpur Forest Division will be assigned the task for Execution of Compensatory Afforestation.

CHAPTER-V**DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION.****A - PLANTING PLAN**

Planting plan reflects the species specific treatment of the identified site. Choice of species is based on the geo-morphology of the site, soil-texture, structure, fertility and depth, proneness of the site to water logging etc. Specific treatment of the site in terms of soil and moisture conservation intervention will be depicted in the treatment map. A treatment map will invariably be prepared for Species to be planted and treatments to be applied to the different patches shown in the treatment map and planting plan. This plan will be followed when actual planting is carried out.

Species to be planted:-

1. Silybum cumini (Jamu)
2. Adina cardifolia (Kuruma)
3. Anogeissus laefolia (Dhaura)
4. Accacia catechu (Khair)
5. Dalbergia sissoo (Sissoo)
6. Azadirachta indica (Neem)
7. Gmelina arborea (Gambhar)
8. Terminalia belerica (Bahada)
9. Terminalia chebula (Harida)
10. Pongamia pinnata (Karanja)
11. Emblica officinalis (Amla)
12. Tectona grandis (Teak)

B - PRE-PLANTING OPERATION**B (I) - RAISING OF PLANTATION STOCK- NURSERY-**

Nursery will be raised @ 1100 seedlings per ha including 10% for casualty replacement.

B (II) – SURVEY, DEMARCATION & PILLAR POSTING, GPS READING WITH MAPPING-

The area has been demarcated through GPS survey and RCC pillars will be posted around the identified area and same has been depicted in the Maps. GPS survey data showing latitude and longitude of each point and the chainage with bearing is also enclosed in the Map prepared thereon.

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B (III)- SITE PREPARATION AND SILVICULTURAL OPERATION INCLUDING CLEARANCE OF WEED, CLIMBER CUTTING, HIGH STUMP CUTTING, SINGLING OF SHOOTS-

The clearing of site involving removal of invasive weeds, bushes, climbers, high stumps and singling of shoots will be taken up preferably by the end of February and latest by the end of March. Pits of the dimension 30 x 30 x 30 cm. Will be dug @ 1000 nos per ha in the available gaps preferably 2 month before or at least a month before planing of seedling. Fencing for an average of 250 mtr per ha using bamboo twigs and bamboo thorn fencing will be provided all around the plantation sites.

C - PLANTING OPERATION.

Planting seedling will be taken up in the month of July. Before planting the seedling raised in the nurseries are to be transported to the planting site and care should be taken so that no seedling will be damaged. The Polythene covering of the balls of earth will be carefully removed before planting. Care will be taken to see that the ball of earth is not broken while doing so. The seedling with all the ball of earth will then be placed firmly in the pit and buried at such a depth that the root collar is well below the surface of the soil. The soil around the plant will be well compacted with the heel as a final step so that there is a proper bond between the ball and the surrounding soil. The earth close to the collar will be slightly elevated so that rain water does not accumulate very close to the plant.

D – POST PLANTING OPERATION

D (1) - CASUALTY REPLACEMENT

The entire area will be gone over in the same order as plantation was carried out and casualties, if any, will be replaced as soon as the main plantation operation is over.

D (2) - WEEDING AND SOIL WORKING

Regular and efficient weeding will start immediately after sprouting of the seedlings is complete or after the seedling have started throwing up new buds.

D (3) - MANURING AND INSECTICIDE APPLICATION

On degraded sites urban compost or farmyard manure wherever available, will be added to the soil while refilling the pits. As regards chemical fertilizers, the fertilizer required and dosage @ 50 gms NPK per plant as basal dose and urea @ 70gms per plant will be applied in two split doses one in August and the other in September.

D (4) - SOIL MOISTURE CONSERVATION MEASURES

Special Soil Moisture Conservation Measures will be taken up over the entire plantation area with staggered trenches of dimension 2m x 0.5m x 0.5m to the tune of 30nos per ha.

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D (5) - PROTECTION AGAINST FIRE AND GRAZING

Measures are to be taken to protect the entire plantation area from fire and grazing. For that fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved norm to augment protection.

CHAPTER-VI**COST STRUCTURE OF PLANTATION, PROVISION OF FUNDS AND UTILIZATION***

- A. ESTIMATE OF COST FOR 1.00 HA. UNDER AR MODEL (1000 seedlings per Ha.) –Wage Rate Rs. 298.00/day. (Advance work) pre-plan ng opera on.

0th year Opera on

SI No.	Item of Work	Preferable period of execu on	person days	Labour (Rs.)	Material (Rs.)	Total (Rs.)
1	2	3	4	5	6	7
1	Survey, Demarca on & pillar pos ng.GPS Regarding with mapping.	Nov/Dec	2	596.00	0	596.00
2	Site Prepara on	Nov/Dec	8	2384.00	0	2384.00
3	Alignment and stacking of pits	Jan/Feb	2	596.00	0	596.00
4	Digging of pits (30cm cube)	Feb-Mar	25	7450.00	0	7450.00
5	Nursery cost (6 months old seedling) Part @ Rs.13.093/- seedling part (Rs.9.120 in 0 th year +Rs.3.973 in 1 st year) for 1100 seedling (1000+100)	Jan-Mar	27.5	8195.00	1837	10032.00
	Sub Total-		64.5	19221.00	1837.00	21058.00
6	Monitoring & Supervision Charge 5% of the total cost		0	0	0	1052.90
	Grand Total		64.5	19221.00	1837.00	22110.90
1st year Opera on						
1	Nursery cost (6 months old seedling)balance @ Rs. 3.973 for 1100 seedlings	April -Jul	13	3874.00	496.00	4370.00
2	Fencing for an average of 250 meters/ha @ Rs. 76.80/- per meter for bamboo twigs and bamboo thorn fencing	Jan-Feb	38	11324.00	8560.00	19884.00
3	Carriage and Plan ng including casualty replacement and applica on of insecticides, manure, etc.	Jul/Aug	13	3874.00	0	3874.00
4	Cost of insecticide and fertilizer, (a). NPK @ 50gms /plant as basal dose=50kg @ Rs.24/- per kg = Rs.		0	0	2020.00	2020.00

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	1200.00 (b). Urea @ 70gms / plants in two subsequent doses @ Rs. 6/- per kg = Rs. 420.00 (c). Granular insecticide (Themet, Forate etc.) @ 5gms/plant @ Rs. 80/- per kg = Rs. 400.00					
5	1 st weeding (complete weeding)	Aug-Sep	5	1490.00	0	1490.00
6	Manuring Urea 35gm	Aug-Sep	4	1192.00	0	1192.00
7	2 nd weeding (complete weeding)	Sep-Oct	4	1192.00	0	1192.00
8	Soil working (50 cms. Radius around plants) & manuring Urea 35gms per plant	Sep/Oct	5	1490.00	0	1490.00
9	Soil conservation measures in the form of staggered trenches of size 2m X 0.5m X 0.5m @ 30 nos per ha	Sep-Oct	10	2980.00	0	2980.00
10	Fire line tracing & inspection on path	Feb/Mar	3	894.00	0	894.00
11	Watch & ward	Aug-Mar	7	2086.00	0	2086.00
	Sub Total		102	30396.00	11076.00	41472.00
12	Monitoring & Supervision charge 5% of the total cost		0	0	0	2073.60
	Grand Total		102	30396.00	11076.00	43545.60
2nd Year Operation						
1	Casualty Replacement 10% with Nursery cost	Jul/Aug	2.5	745.00	1036.00	1781.00
2	Complete weeding and cultural operations	Sep/Oct	4	1192.00	0	1192.00
3	Repair and maintenance of Bamboo fence including material cost	Sep/Oct	20	5960.00	5080.00	11040.00
4	Cost of Fertilizer (NPK @ 70gms/plants for 1000 plants) (Rs. 24/- per kg & insecticide @ 5 gms/plants for 100 plants 500gms @ Rs. 80/- per kg)		0	0	1720.00	1720.00
5	Soil working (50 cms. Radius around plants)	Oct-Nov	5	1490.00	0	1490.00
6	Application of fertilizer & insecticide	Sep/Oct	2.5	745.00	0	745.00
7	Fire line tracing (2m. wide re line over 400m long)	Feb/Mar	3	894.00	0	894.00
8	Watch & ward	Apr-Mar	15	4470.00	0	4470.00
	Sub Total		52	15496.00	7836.00	23332.00
9	Monitoring & Supervision charge 5% of the total cost		0	0	0	1166.60
	Grand Total		52	15496.00	7836.00	24498.60

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<u>3rd Year Opera on</u>						
1	Weeding and applica on of fer lizer	Aug/Sep	5	1490.00	0	1490.00
2	Cost of fer lizer (NPK @ 50 gms/plant) @ Rs. 24/-per kg		0	0	1200.00	1200.00
3	Repair and maintenance of Bamboo fence including material cost	Sep/Oct	20	5960.00	1000.00	6960.00
4	Soil working (50cms Radius around plants) & applica on of fer lizer	Oct-Nov	5	1490.00	0	1490.00
5	Fire line tracing (2m. wide re line over 400 m length) & cultural opera on	Feb/Mar	3	894.00	0	894.00
6	Watch & Ward	Apr-Mar	15	4470.00	0	4470.00
	Sub Total		48	14304.00	2200.00	16504.00
5	Monitoring & Supervision charge 5% of the total cost		0	0	0	825.20
	Grand Total		48	14304.00	2200.00	17329.20
<u>4th Year Opera on</u>						
1	Fire line tracing (2m. wide re line over 400m length and cultural opera on	Feb/Mar	3	894.00	0	894.00
2	Watch & ward	Apr/Mar	15	4470.00	0	4470.00
	Sub Total		18	5364.00	0	5364.00
3	Monitoring & Supervision Charge 5%of the cost		0	0	0	268.20
	Grand Total		18	5364.00	0	5632.20
<u>5th Year Opera on</u>						
1	Fire line tracing (2m. wide re line over 400m length and cultural opera on	Feb/Mar	3	894.00	0	894.00
2	Watch & ward	Apr/Mar	15	4470.00	0	4470.00
	Sub Total		18	5364.00	0	5364.00
3	Monitoring & Supervision Charge 5%of the cost		0	0	0	268.20
	Grand Total		18	5364.00	0	5632.20
<u>6th Year Opera on</u>						
1	Fire line tracing (2m. wide re line over 400m length and cultural opera on	Feb/Mar	3	894.00	0	894.00
2	Watch & ward	Apr/Mar	15	4470.00	0	4470.00
	Sub Total		18	5364.00	0	5364.00

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3	Monitoring & Supervision Charge 5%of the cost		0	0	0	268.20
	Grand Total		18	5364.00	0	5632.20
<u>7th Year Opera on</u>						
1	Fire line tracing (2m. wide re line over 400m length and cultural opera on	Feb/Mar	3	894.00	0	894.00
2	Watch & ward	Apr/Mar	15	4470.00	0	4470.00
	Sub Total		18	5364.00	0	5364.00
3	Monitoring & Supervision Charge 5%of the cost		0	0	0	268.20
	Grand Total		18	5364.00	0	5632.20
<u>8th Year Opera on</u>						
1	Fire line tracing (2m. wide re line over 400m length and cultural opera on	Feb/Mar	3	894.00	0	894.00
2	Watch & ward	Apr/Mar	15	4470.00	0	4470.00
	Sub Total		18	5364.00	0	5364.00
3	Monitoring & Supervision Charge 5%of the cost		0	0	0	268.20
	Grand Total		18	5364.00	0	5632.20
<u>9th Year Opera on</u>						
1	Fire line tracing (2m. wide re line over 400m length and cultural opera on	Feb/Mar	3	894.00	0	894.00
2	Watch & ward	Apr/Mar	15	4470.00	0	4470.00
	Sub Total		18	5364.00	0	5364.00
3	Monitoring & Supervision Charge 5%of the cost		0	0	0	268.20
	Grand Total		18	5364.00	0	5632.20
<u>10th Year Opera on</u>						
1	Fire line tracing (2m. wide re line over 400m length and cultural opera on	Feb/Mar	3	894.00	0	894.00
2	Watch & ward	Apr/Mar	15	4470.00	0	4470.00
	Sub Total		18	5364.00	0	5364.00
3	Monitoring & Supervision Charge 5%of the cost		0	0	0	268.20
	Grand Total		18	5364.00	0	5632.20

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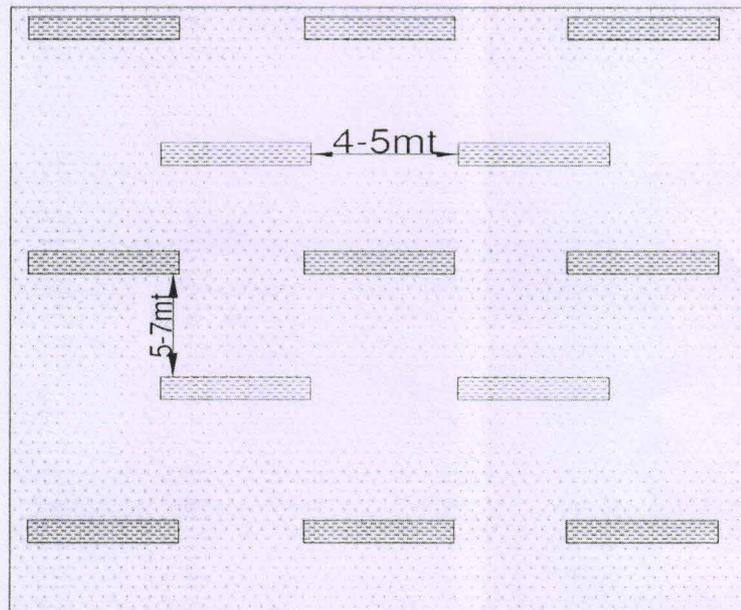
ABSTRACT

Sl. No	Item of work	Person Days	Lobour (Rs.)	Material (Rs.)	Monitoring & Supervision charge- 5%of the total Cost	Total (Rs.)
1	0 th Year Opera on	64.5	19221.00	1837.00	1052.90	22110.90
2	1 st Year Opera on	102	30396.00	11076.00	2073.60	43545.60
3	2 nd Year Opera on	52	15496.00	7836.00	1166.60	24498.60
4	3 rd Year Opera on	48	14304.00	2200.00	825.20	17329.20
5	4 th Year opera on	18	5364.00	0	268.20	5632.20
6	5 th Year Opera on	18	5364.00	0	268.20	5632.20
7	6 th year Opera on	18	5364.00	0	268.20	5632.20
8	7 th Year Opera on	18	5364.00	0	268.20	5632.20
9	8 th Year Opera on	18	5364.00	0	268.20	5632.20
10	9 th Year Opera on	18	5364.00	0	268.20	5632.20
11	10 th Year Opera on	18	5364.00	0	268.20	5632.20
Grand Total		392.5	116965.00	22949.00	6995.70	146909.70 OR 146910.00

(Rupees One Lakh Forty Six Thousand Nine Hundred Ten only /Ha)

B) Soil Moisture Conservation Measures (SMC)

Staggered Trench- The staggered trenches are primarily aim to break the runoff which otherwise will form reels and gullies. Such reels when conversed will form gullies. Continuous gullies when joined together will form a ditch. Therefore it is aimed at excavating 60 Nos. of staggered trenches per Ha. Each such trench will be 2 m (length) X 0.5 m (width) x 0.5m (depth). These trenches will conserve rain water of this region and facilitates its percolation. Therefore while aligning such trenches adequate care should be taken so that gullies are not formed by the water flowing downhill from the wedges of trench.



Picturesque diagram of staggered trenches

Cost of staggered trench per Ha. 20 man days @Rs.298.00/-
 (5960.00 X 53.60 Ha = 3,19,456.00/-

1. LOOSE BOULDER CHECK DAM

(A) Size-10' x 10' x 5'

(i) Requirement of boulder (Procured from quarry)

$$1/4 (10' + 4') \times 10' \times 5' = 350 \text{ cft or } 9.90 \text{ cum}$$

Cost of Boulder @ ₹. 245.41/- per cum for 9.9 cum = ₹ 2,429.56/-

(ii) Labour for construction of L.B.C.D. for 1 cum

Mulla 1.04 No. x 298.00 = 309.92

Mason special 0.17 No. x 436.30 = 74.17

Stone packer — 0.35 No. x 326.30 = 114.20

Total = 498.29

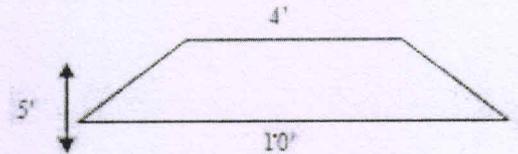
For 9.90 cum 9.90 x 498.29 =

₹ 4,933.07/-

₹ 7,242.04/-

(Rounded to ₹ 7,242/-)

Rate for 1 cum ₹ 7,242/- per cum or ₹ 731.52/- per cum

**2. LOOSE BOULDER CHECK DAM**

(A) Size-10' x 10' x 5'

(i) Requirement of boulder (Picked up and broken)

$$1/4 (10' + 4') \times 10' \times 5' = 350 \text{ cft or } 9.90 \text{ cum}$$

@ ₹ 239/- per cum ~~~~~ ₹ 2,366.10/-

(ii) Labour for construction of L.B.C.D. for 1 cum

Mulla 1.04 No. x 298.00 = 309.92

Mason special 0.17 No. x 436.30 = 74.17

Stone packer — 0.35 No. x 326.30 = 114.20

Total = 498.29

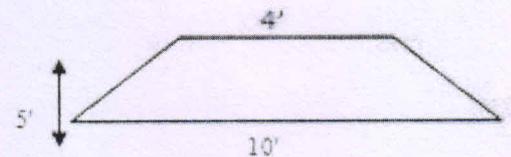
For 9.90 cum 9.90 x 498.29 =

₹ 4,933.07/-

₹ 7,178.98/-

(Rounded to ₹ 7,179/-)

For 1 cum ₹ 725.15/- cum or ₹ 725/- per Cum



N.B. The cost of transportation with a lead of 5 Kms. ₹ 156.40/cum.

ABSTRACT		
Sl No.	Item	Remarks
1	Loose Boulder Check Dam (L.B.C.D.) Constructed from the boulder procured from the quarry	₹ 731.00/ Cum
2	In-situ collected, broken and utilized for construction of L.B.C.D.	₹ 725.00/ Cum
3	Cost of transportation within a lead of 5 Kms.	₹ 156.40/ Cum

* Rate will be proportionately enhanced for lead more than 5 km in specific cases.

3. LOOSE BOULDER CHECK DAMS (LBCD)

- i. This structure is to be created across the drainage line for retention of runoff and reduction of velocity. Such structures should preferably have top width of one meter with upstream slope of 1:1 and downstream slope of 1:5.
- ii. The dimensions of each structure are dependent on several factors such as gradient, catchment size etc. Hence, prescription of a fixed dimension LBCD is not contemplated. Since, the cost norm for such structures are based on volume, implementing divisions will have desired flexibility to design such structures with appropriate dimensions.
- iii. On either side of the LBCD, trenches of prescribed dimension should be created to allow the vertically running water to spread on either side at the obstruction point which will reduce the velocity effectively. The length of such trenches should be at least twice the length of LBCD on either side. They may be straight line or a curve with the curve towards uphill side. Such structures will also capture more rainwater and enhance infiltration.

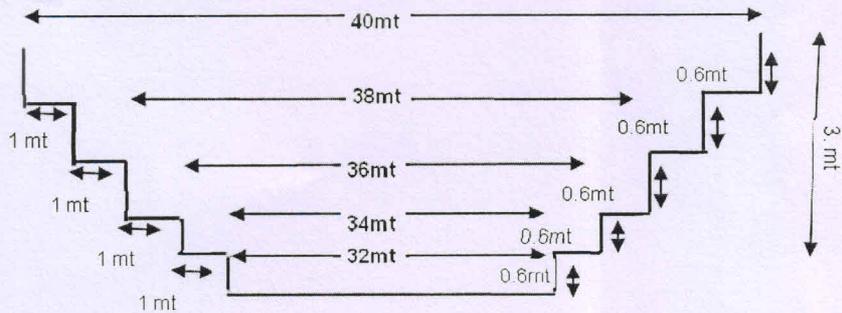
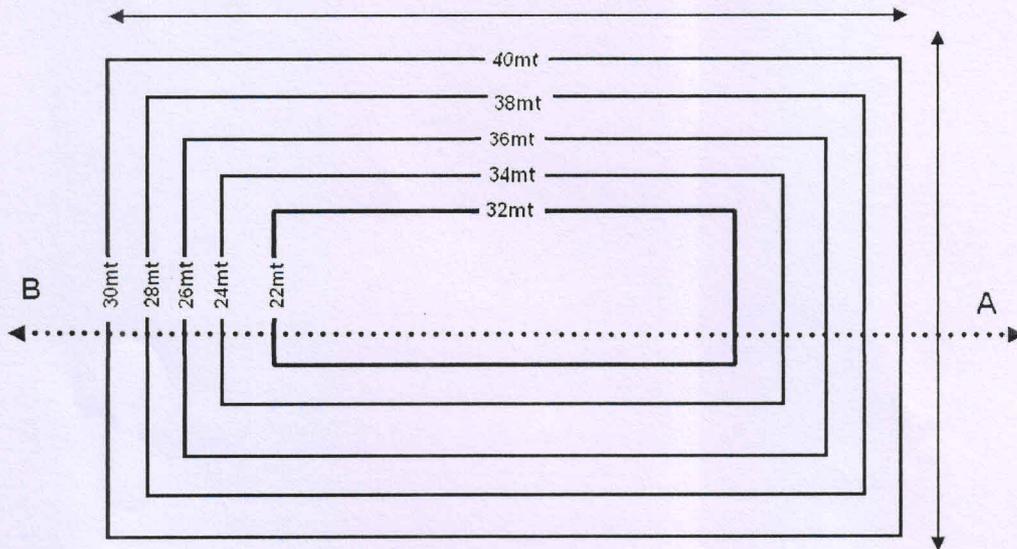
4. WATER HARVESTING STRUCTURE (WHS)

These are open reservoirs of water for use by wild animals. Their location would be such that they receive water from the underground. Surface runoff, if allowed to enter, will promote siltation leading to reduction in storage capacity.

Water harvesting structures are created at open places which will act as open reservoirs to retain water. The water is generally stored during rains and helps in recharging the ground water of the area. The location of WHS deserves technical evaluation to serve the dual objective of rain water harvesting and ground water availability.

PLAN FOR PERCOLATION TANK

SIZE - 40mtr X 30mtr X 3mtr



Cross section along AB

FINANCIAL OUT LAY OF SMC ACTIVITIES

SI No.	SMC Measure	Cost in
1	Staggered Trenchs (2mt x 0.5 mt x 0.5 mt) / (As per the norm included in the project cost) Percolation Tank (40 mt x 30 mt x 3 mt) / Water Harvesting Structure & LBCD etc (additional SMC work 25 % of the project cost)	19,68,594.00
	Total	19,68,594.00

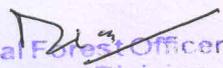
(Rupees Nineteen Lakhs Sixty Eight Thousand Five Hundred Ninety Four Only)


Divisional Forest Officer
Nabarangpur Division
Divisional Forest Officer,
Nabarangpur Forest Division.

C. TOTAL COST OF THE COMPENSATORY AFFORESTATION SCHEME

SL NO	ITEM OF WORK	TOTAL COST IN.
1.	Cost of AR Plantation (1000 plants per Ha) over an area of 53.60 Ha @ 1,46,910.00/- per Ha	78,74,376.00
2.	Additional Cost for SMC activities 25 % of plantation cost	19,68,594.00
Sub Total		98,42,970.00
EPA & Unforeseen expenses 20% of (Item No.1,2)		19,68,594.00
Total		1,18,11,564.00
Escalation 20%		23,62,312.80
Grand Total		1,41,73,876.80
		OR
		1,41,73,880.00

(Rupees One Crore Forty One Lakhs Seventy Three Thousand Eight Hundred Eighty only)


 Divisional Forest Officer
 Nabarangpur Division
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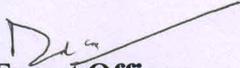
D. PROVISION OF FUNDS AND FUND UTILIZATION

Rs. 1, 41, 73, 880.00 (Rupees One Crore Forty One Lakhs Seventy Three Thousand Eight Hundred Eighty only) shall be deposited by M/s OPTCL Rayagada and approval of the scheme to the Ad-hoc CAMPA Account and the funds will be utilized for raising of Compensatory Afforestation by the Divisional Forest Officer, Nabarangpur Division on allotment by the Principal Chief Conservator of Forest, Odisha, Bhubaneswar.

CHAPTER-VII

DETAILS OF PROPOSED MONITORING MECHANISM

Compensatory Afforestation will be taken up in the identified site by the Range Officer, Dabugaon Range of Nabarangpur Forest Division. The Range Forest Officer, Dabugaon Range will undertake field checks of the works undertaken at the identified site and will be cross checked by the Asst. Conservator of Forests, (Affn.) and Divisional Forest Officer, Nabarangpur Forest Division. GPS co-ordinates along with other required informations of Compensatory Afforestation will be uploaded in the e-Greenwatch Portal of NIC, MOEF, and Govt. of India for the purpose of online monitoring. Annual progress of plantation involving growth of planted seedling, survival percentage etc. will be monitored and recorded in the plantation journal by the field staffs of Dabugaon Range and reported to the Divisional Forest Officer for necessary action. The same thing will be reported to the Regional Chief Conservator of Forests, Koraput Circle, Koraput and Chief Conservator of Forests (PP&A), O/o the Pr. Chief Conservator of Forests, Odisha, Bhubaneswar and necessary corrective measures will be followed if required so.


Divisional Forest Officer,
Nabarangpur Forest Division
Nabarangpur Division