

**COMPENSATORY AFFORESTATION SCHEME OVER
14.57 HA GOVT. LAND (2.20 HA BLOCK PLANTATION @1600 PLANTS/HA AND 12.37
HA ANR PLANTATION @ 400 PLANTS/HA) IN PARMANPUR VILLAGE UNDER
KOLABIRA RANGE AGAINST 14.53 HA OF FOREST LAND PROPOSED TO BE
DIVERTED FOR AHERAJORE BARRAGE)**

INTRODUCTION

As per Para 3.2 (I) of the guidelines of Forest Conservation Act, 1980 Compensatory Afforestation shall be done over equivalent area of non-forest land. As a State Sector Project 14.57 ha of non-forest land has been identified by the Tahasildar, Kolabira as per order of Collector, Jharsuguda in Parmanpur Village of Kolabira Range under Kolabira Tahasil in Jharsuguda district against the forest area to be diverted in case of Aherajore Barrage. The Compensatory Plantation Scheme for raising Block Plantation @ 1600 seedlings per ha over 2.20 ha and ANR with gap plantation @ 400 plants per ha over 12.37 ha has been prepared in Parmanpur village over non-forest Govt. Land in Plot No. 37, 50, 51, 53 of Khata No.265 against 14.53 ha area proposed to be diverted in favour of Executive Engineer, Sundargarh Minor Irrigation Project.

DETAILS OF SITE SELECTED

Suitable Non-forest Govt. land has been identified for Compensatory Afforestation over 14.57 ha in different patches of Parmanpur village in Plot No. Plot No. 37, 50, 51, 53 of Khata No.265 in patch in Kolabira Range under Kolabira Tahasil .2.20 ha Block Plantation(AR) @1600 plants/ha can be taken up in Plot No.50 & 51 and 12.37 ha ANR with gap plantation @ 400 plants/ha can be taken up in Plot No.37 & 53 of Khata No.265. The details of land schedules is given in the table. The location map showing the proposed Compensatory Afforestation site in Parmanpur village over 14.57 ha is shown in Village sheet No1 & 2(*Plate No.17 & 18*) & in Toposheet No. F45 M1 (*Plate No.20*) The site is located in survey of India Topo Sheet No F45 M1 between Latitude: 21° 47' 54.36" -21° 49' 5.01, Longitude: 84° 6' 13.41"- 84° 5' 38.40" E and at a distance of 10 KM from Tahasil Headquarters. The proposed area is free from encroachment and encumbrances and suitable for plantation. The suitability certificate issued by the Range Officer, Kolabira is enclosed with the CA Scheme.

Tahasil	Village	Khata no	Plot.no	Area of the Plot (Ac)	Area considered (Ac)	Kisam
Kolabira	Parmanpur	265	37	39.77	20.13	Gochar
			50	1.78	1.78	
			51	3.68	3.68	
			53	19.40	10.41	
Total				64.63	36.00	

(a) Crop composition:

The density of the vegetation is **20 to 40%**. The area is having scattered forest growth with few saplings/poles of Sal, Kendu, Bheru, Kurei, Asan, etc. It is, therefore, possible to take up regular Block Plantation (AR) @ 1600 plants per Ha over 2.20 ha and ANR with gap plantation @ 400 plants per ha over 12.37 ha. The crop affords gaps which can be filled through AR & ANR activities.

(b) Soil and topography:

The topography of CA site is mainly plain with gentle slope. The soil is mostly sandy loam. The drainage is good.

(c) Temperature:

The average minimum and maximum temperature varies from 8°C in December to 48°C in May.

(d) Rain fall:

The annual rain fall varies from 1200 mm to 1500 mm mostly received during rainy season from July to September.

OBJECTIVE OF THE SCHEME

- (i) To rehabilitate the degraded forest land through plantation with suitable indigenous species.
- (ii) To promote the growth of existing crop and root stock through suitable silvicultural practices.
- (iii) To arrest soil erosion and to improve the soil-moisture regime of the area which will ultimately recharge the ground water.
- (iv) To create a compact forest, which will be an asset for the local people from environmental, economic and aesthetic points of view.
- (v) To help to reduce environmental pollution.

ITEMS OF WORK TO BE TAKEN UP:

To achieve the objective narrated in the foregoing para, the following items of work are mainly prescribed to be taken up:

1. SURVEY AND DEMARCATION OF BOUNDARY.

The proposed Compensatory Plantation Area has already been surveyed and demarcated in the field by the User Agency with RCC pillars posting as has been thoroughly checked by the officials of Forest Department. The selected area has been surveyed and demarcated with the help of chain and prismatic compass and posted with concrete pillars of 4' height at each surveyed station duly numbered. After this work, the entire area will be fenced with trench fencing and babul seeds sown on the heap of soil all along the outer side of the trench by the Forest Department at the cost of the User Agency.

2. SOIL AND MOISTURE CONSERVATION.

Soil and moisture conservation measures will be taken up as specified in the cost norm of AR & ANR Plantation.

3. FENCING.

As this area is non- forest Govt.land i.e Gochar land, there is every possibility of grazing by stray animal. It is therefore proposed for Trench Fencing/vegetative fencing along the surveyed boundaries to prevent grazing. Trench fencing will be done over 14.57 ha. An amount of Rs. **5,15,778.00** (wage rate of Rs. 200/- per MD) will be required for taking up trench fencing.

4. PROTECTION MEASURE:

The area has become degraded due to biotic interference and to save the area from the same, the following protection measures are to be adopted.

(a) Watch and ward.

The Compensatory Area will have to be protected by engaging watchers for 8 (eight) years continuously, i.e. till establishment of the planted trees and natural saplings.

(b) Involvement of V.S.S.

There are Vana Samrakhya Samity in Niktimal village. The members of the VSSs will be involved in Protection and regeneration of the area. For the purpose training, awareness and motivation of the members shall be provided in the present scheme.

5. MONITORING AND EVALUATION

This scheme shall be executed and monitored by the Divisional Forest Officer, Sambalpur North Forest Division. Nursery and plantation journals shall be maintained regularly to facilitate monitoring and evaluation of the project.

6. CLEANING AND TENDERING OPERATION.

Regeneration cleaning of the area will be taken up during the pre-planting year by cutting of unwanted growth, high stumps and singling out of promising shoots of primary species where bushy forest growth is available.

7. PLANTING OF SEEDLINGS.

The proposed Compensatory Afforestation area will be planted by suitable species with a spacing of 2.5m x 2.5m and hence Block Planntation (AR) @1600 nos of seedling per ha will be planted over 2.20 ha and ANR with gap plantation @ 200 plants per ha over 12.37 ha. So, 8468 nos (3520 for Block Plantation + 4948 for gap plantation) seedling will be required for planting over the entire area. As the entire area is prone to grazing, suitable indigenous species will be planted as detailed below

1. Teak (*Tectona grandis*)
2. Bahada (*Terminalia belerica*)
3. Sissoo (*Dalbergia*)
4. Neem (*Azadirachta indica*)
5. Amala (*Emblica officinalis*)
6. Karanja (*Pongamia pinnata*)
7. Salia Bamboo (*Dendrocalamus strictus*)

8. SCHEDULE OF ACTIVITIES.

For taking up plantation work, the following items of works are to be taken up.

0th Year (Pre-planting Operation)

(i) **Raising of Nursery:** - The nursery will be raised for 1 year old seedlings during the pre-planting year. Potted seedlings will be planted @ 1600 nos. per Ha for 2.20 ha and ANR with gap plantation @ 400 plants per ha for 12.37 ha. i.e 8468 nos over the total area. For the purpose 9315 nos seedling are to be raised.

(ii) **Survey demarcation, staking and digging of pits :-** A treatment map will be prepared for the area. Pits of size 30 CM X30 CM X30 CM will be dug with spacing of 2.5 mts X 2.5 mts during January - March, in the area selected for Block Plantation and in perennial gaps more than 0.4 ha in extent in the area selected for ANR with gap plantation which will help in weathering of pits. Concrete masonry pillars will be constructed along the boundary of the above forest area during demarcation. The area shall be divided in to 4Ha plots in the field with proper demarcation to facilitate management/inspection and the same shall also be shown on the treatment map.

(iii) Trench Fencing & SMC works shall be taken up during 0th year/Year of Creation after completion of survey & demarcation.

PLANTATION YEAR.

1ST YEAR OPERATION

(i) **Application of Farmyard Manure, Chemical Fertilizer and Insecticides :** - To enhance fertility, farmyard manure will be applied in the pits during June after scooping of the pits. Chemical fertilizer (N.P.K) as basal dose @ 50 gms per plant will be applied at the time of planting. To save the planted seedlings from termite attack, Aldrin dust or some effective insecticides will be applied at the time of planting.

(ii) **Planting:** - Planting of seedling will be done during mid July after the onset of monsoon. The soil and water conservation works will be taken up before the rains.

(iii) **Weeding, Soil Working, Manuring, Casualty Replacement.** : - 1st weeding and soil working will be taken up during 1st week of August or just after establishment of planted seedlings. Soil working at 0.5 m radius around the seedling planted will be taken up. The casualties will be replaced simultaneously.

2nd weeding will be done during 2nd F.N of September or 1st week of October. 2nd dose of chemicals fertilizer @ 50 gms per plant will be applied in the crowbar holes during 2nd weeding.

(iv) **Grass cutting and fire tracing:** -To save the area from fire damage, dry grasses shall be cut in lines of 1.5 mtr width around the plantation. The dry grasses shall either be shifted or burnt in-situ with care to avoid fire hazard during summer.

(v) **Watch & ward:** Watchers shall be engaged for watch & ward of the plantation area against biotic interference, fire hazards etc throughout the year as per the approved cost norm.

2ND YEAR OPERATION.

During the second year operation the following works will be taken up.

- (i) **1st weeding, casualty replacement and application of chemical fertilizer.:-** Weeding will be taken up during Ist week of July. Soil working with 0.5 mt radius will be done alongwith the replacement of 10% casualties and application of chemical fertilizer @ 50 gms per plant in crow bar holes. Precaution should be taken for conservation of soil and water at the time of soil working.
- (ii) **2nd weeding and mulching :** 2nd weeding will be done during 1st F.N of October. Mulching of the plant sides will be done for conservation of moistures.
- (iii) **Grass cutting and fire tracing :** Cutting of dry grasses and fire tracing will be done during December and January like previous year.
- (iii) **Watch & Ward:** - Watchers to be engaged for the whole year as like previous year.

3RD YEAR OPERATION.

- (i) **Weeding pruning and deep soil working.:** weeding and deep soil working will be taken up during July and August. Pruning of planted trees and tending of natural species will be done during November.
- (ii) **Grass cutting and fire tracing:** Like previous years grass cutting and fire tracing will be done during December/ January.
- (iii) **Watch and Ward:** Watchers shall be engaged for the whole year as in previous years.

4TH YEAR OPERATION.

- (i)**Cleaning and pruning:** Cleaning of existing crop and Pruning of planted trees will be taken up during December/ January.
- (ii)**Fire Tracing:** Like previous years grass cutting and fire tracing will be done during December/ January.
- (iii)**Watch and Ward:** Watchers will be engaged for the whole year as like previous years.

5TH YEAR OPERATION.

(i)Cleaning and pruning: Cleaning of existing crop and pruning of planted trees will be done during December/ January.

(ii)Grass cutting and fire tracing: As like previous years, grass cutting and fire tracing will be done during December /January.

(iii)Watch and ward: Watchers will be engaged for the whole year as like previous years.

6TH YEAR OPERATION.5

(i)Cleaning and pruning: Cleaning of existing crop and pruning of planted trees will be done during December/ January.

(ii)Grass cutting and fire tracing: As like previous years, grass cutting and fire tracing will be done during December /January.

(iii)Watch and ward: Watchers will be engaged for the whole year as like previous years.

7TH YEAR OPERATION.

(i)Cleaning and pruning: Cleaning of existing crop and pruning of planted trees will be done during December/ January.

(ii)Grass cutting and fire tracing: As like previous years, grass cutting and fire tracing will be done during December /January.

(iii)Watch and ward: Watchers will be engaged for the whole year as like previous years.

8TH YEAR OPERATION.

(i)Cleaning and pruning: Cleaning of existing crop and pruning of planted trees will be done during December/ January.

(ii)Grass cutting and fire tracing: As like previous years, grass cutting and fire tracing will be done during December /January.

(iii)Watch and ward: Watchers will be engaged for the whole year as like previous years.

9TH YEAR OPERATION.

(i)Cleaning and pruning: Cleaning of existing crop and pruning of planted trees will be done during December/ January.

(ii)Grass cutting and fire tracing: As like previous years, grass cutting and fire tracing will be done during December /January.

(iii)**Watch and ward:** Watchers will be engaged for the whole year as like previous years.

10TH YEAR OPERATION.

(i)**Cleaning and pruning:** Cleaning of existing crop and pruning of planted trees will be done during December/ January.

(ii)**Grass cutting and fire tracing:** As like previous years, grass cutting and fire tracing will be done during December /January.

(iii)**Watch and ward:** Watchers will be engaged for the whole year as like previous years.

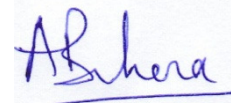
DETAILS OF COST OF INFRASTRUCTURE.

There is gross lack of adequate infrastructure in the newly created Division Office at Jharsuguda which seriously hampers day to day office works. One high end Computer with all accessories like UPS, Office Table & Chair is badly essential for use in Division Office as well as for timely and efficient disposal of various important office works and monitoring of Diversion Proposals, compensatory afforestation & other plantation activities. Hence, the User Agency shall be required to deposit the cost of Compensatory Afforestation alongwith the cost of Computer with accessories as kinds from the Project Cost.

DETAILS OF ITEM-WISE FINANCIAL OUTLAY FOR AFORESTATION.

Sl No.	Item of work	Total outlay
01	Block Plantation @ 1600 plant per ha for 2.20 ha.	203720
02	ANR with gap plantation @ 400 plants per ha for 12. 37 ha.	470060
03	Trench Fencing @35400/- per ha	515778
Total		1189558
05	Escalation cost @ 20%	237912
06	One High End Computer with all accessories like UPS, Office Table & Chair shall be supplied by UA	100000
Grand Total		14,28,470.00

(Rupees Fourteen Lakh, Twenty Eight Thousand, Four Hundred Seventy) only.



Divisional Forest Officer,
Jharsuguda Forest Division.

COST OF COMPENSATORY AFFORESTATION OVER 2.20 HA

01	Type of the Plantation.	Block Plantation
02	No. of seedlings to be planted.	1600 nos. per hectare
03.	Spacing to be adopted.	2.5m x 2.5m
04	Size of pits.	30cm x 30cm x 30cm
05	Wage rate.	Rs. 200/- per manday
06	Species to be planted	Teak(Tectona grandis), Bahada (Terminalia belerica), Sissoo (Dalbergia), Neem (Azadirachta indica), Gambhar (Gmelina arborea), Amala (Emblica officinalis), Karanja (Pongamia pinnata), Salia Bamboo (Dendrocalamus strictus)
07	The User Agency will pay the wage rate as and when enhanced.	

COST NORM FOR BLOCK PLANTATION PER HA.

Sl No.	Items of work	Person-days	Labour cost @ Rs. 200/-day	Material cost (Rs.)	Total Cost (Rs.)
1	2	3	4	5	6
0th year (Advance work) pre-planting operation					
1	Survey, demarcation & Pillar posting	2	400	0	400
2	Site preparation	8	1600	0	1200
3	Alignment & stacking of pits	2	400	0	400
4	Digging of pits (30 cm cube)	40	8000	0	8000
5	Nursery cost (eight months old seedling) part	80	8000	8000	16000
	Total	132	18400	8000	26400
1st year planting Year / Year of Creation					
6	Nursery cost (eight months old seedling) balance	16	2800	400	3200
7	Carriage & planting, CR, manuring, insecticide application	21	4200	0	4200
8	Cost of insecticide & fertilizer	21	0	4200	4200
9	1 st weeding (complete weeding)	7	1400	0	1400
10	Manuring	5	1000	0	1000
11	2 nd weeding (complete weeding)	5	1000	0	1000
12	Soil working (50 cms. Radius around plants)	7	1400	0	1400
13	Fire line Tracing & Inspection path	3	600	0	600
14	Soil conservation measures in the form of staggered trenches of 2m.L X 50 cm.	10	2000	0	2000
15	Watch & ward	7	1400	0	1400

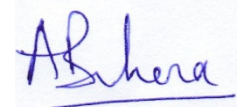
	Total	102	16000	4400	20400
2nd year Maintenance					
16	Casualty replacement with nursery cost	12	2400	0	2400
17	Weeding (complete weeding)	6	1200	0	1200
18	Application of fertilizer	4	800	0	800
19	Cost of fertilizer	12	0	2400	2400
20	Soil working (50 Cms. Radius around plants)	7	1400	0	1400
21	Fire line Tracing (2m, Wide fire line over 400m long)	3	600	0	600
22	Watch & Ward	15	3000	0	3000
	Total	59	9400	2400	11800
3rd year maintenance					
23	Weeding & application fertilizer	7	1400	0	1400
24	Cost of fertilizer	12	0	2400	2400
25	Soil working (50 cms. Radius around plants)	7	1400	0	1400
26	Fire line Tracing (2m. Wide fire line over 400m long)	3	600	0	600
27	Watch & ward	15	3000	0	3000
Total		44	6400	2400	8800
4th year Maintenance					
28	Fire line Tracing (2m. wide fire line over 400 m long)	3	600	0	600
29	Watch & word	15	3000	0	3000
Total		18	3600	0	3600
5th year Maintenance					
30	Fire line Tracing(2m. wide fire line over 400m long)	3	600	0	600
31	Watch & Word	15	3000	0	3600
	Total	18	3600	0	3600
6th year Maintenance					
32	Fire line Tracing(2m. wide fire line over 400m long)	3	600	0	600
33	Watch & Word	15	3000	0	3600
	Total	18	3600	0	3600
7th year Maintenance					
34	Fire line Tracing(2m. wide fire line over 400m long)	3	600	0	600
35	Watch & Word	15	3000	0	3600
	Total	18	3600	0	3600
8th year Maintenance					
36	Fire line Tracing(2m. wide fire line	3	600	0	600

	over 400m long)				
37	Watch & Word	15	3000	0	3600
	Total	18	3600	0	3600
8th year Maintenance					
36	Fire line Tracing(2m. wide fire line over 400m long)	3	600	0	600
37	Watch & Word	15	3000	0	3600
	Total	18	3600	0	3600
9th year Maintenance					
36	Fire line Tracing(2m. wide fire line over 400m long)	3	600	0	600
37	Watch & Word	15	3000	0	3600
	Total	18	3600	0	3600
10th year Maintenance					
36	Fire line Tracing(2m. wide fire line over 400m long)	3	600	0	600
37	Watch & Word	15	3000	0	3600
	Total	18	3600	0	3600

A B S T R A C T

Sl No.	Year	Person days	Labour Cost (wage rate @ ` 200/-)	Material Cost (in `)	Total/ha. (in `)
1	0th year	132	18400	8000	26400
2	1st year	102	16000	4400	20400
3	2nd year	59	9400	2400	11800
4	3rd year	44	6400	2400	8800
5	4th year	18	3600	0	3600
6	5th year	18	3600	0	3600
7	6th year	18	3600	0	3600
8	7th year	18	3600	0	3600
9	8th year	18	3600	0	3600
10	9th year	18	3600	0	3600
11	10th year	18	3600	0	3600
Total		463	75300	17300	92600

2.20 ha x 92,600 = Rs.203720.00 (Rupees Two Lakh Three Thousand Seven Hundred Twenty) only.



Divisional Forest Officer,
Jharsuguda Forest Division.

**NATURAL REGENERATION OF DEGRADED FOREST (ANR) PLANTATION OF
400 SEEDLINGS/HECT.**

1.	Type of the Plantation.	ANR Plantation.
2.	No. of seedlings to be planted.	400 Nos. per hectare
3.	Spacing to be adopted.	2.5m x 2.5m
4.	Size of pits.	30cm x 30cm x 30cm
5.	Wage rate.	Rs.200/- per manday.
6.	Species to be planted.	1. Bahada (Terminalia belerica) 2. Sissoo (Dalbergia) 3. Neem (Azadirachta indica) 4. Gambhar (Gmelina arborea) 5. Amala (Emblica officinalis) 6. Bel (Aegle marmelos) 7. Karanja (Pongamia pinnata) 8. Bamboo (Dendrocalamus strictus) 9. Asan (Terminalia tomentosa) 10. Tentuli (Tamarindus indica)
7.	The user agency will pay the wage rate as and when enhanced.	

0th year (Advance work) Pre-planting operation.

Sl. No.	Item of work	Mandays	Labour rate @ Rs.200/-	Material cost.	Total.
1	2	3	4	5	6
1.	Survey, Demarcation & pillar posting, GPS reading with mapping	2	400	0	400
2.	Site preparation.	2	400	0	400
3.	Sivicultural Operation including clearance of weed, climber cutting, high stump cutting, singling of shoots	5	1000	0	1000
4.	Raising nursery @440 seedling/Ha (including 10% casualty replacement) and watch and ward(part-I)	16	2400	800	3200
5.	Contingency and unforeseen expenditure	1	0	200	200
Sub Total		26	4200	1000	5200
1stYear/ Planting					
1	Maintenance of Nursery (Balance)	8	1600	0	1600
2	Pitting 30cm cube size	14	2800	0	2800
3	Carriage and planting including casualty replacement	9	1800	0	1800
4	Complete wedding, soil working, Manuring	11	2200	0	2200

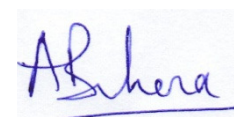
5	Cost of Vermi compost and Insecticide for plantation	6	0	1200	1200
6	Cost of chemical fertilizer	2	0	400	400
7	Fire line tracing and inspection path	3	600	0	600
8	Silvicultural operation involving clearance of weeds, cutting of climbers and singling of shoots on each stool etc.	15	3000	0	3000
9	Watch and ward	20	4000	0	4000
10	Soil Conservation measures	8	1600	0	1600
11	Contingencies and unforeseen expenditure	2	0	400	400
Sub Total		98	17600	2000	19600
2nd Year Maintenance					
1	Casualty replacement including cost of seedling, carriage and planting.	4	800	0	800
2	Complete Weeding and pruning.	4	800	0	800
3	Soil working and mannuring	4	800	0	800
4	Cost of fertilizer and insecticide	2	0	400	400
5	Fire line tracing and Inspection path	1	200	0	200
6	Soil Conservation measures	8	1600	0	1600
7	Watch and ward (Whole Year)	8	1600	0	1600
8	Contingencies and unforeseen expenditure.	1	0	200	200
Sub Total		32	5800	600	6400
3rd Year Maintenance					
1	Complete Weeding and pruning.	2	400	0	400
2	Soil working	2	400	0	400
3	Fire line tracing and Inspection path	1	200	0	200
4	Watch and ward (Whole Year)	8	1600	0	1600
Sub Total		13	2600	0	2600
4th Year Maintenance					
1	Fire line tracing and Inspection path	1	200	0	200
2	Pruning, Watch and ward	2	400	0	400
Sub Total		3	600	0	600
5th Year maintenance					
1	Fire line tracing and Inspection path	1	200	0	200
2	Prunning, Watch and ward	2	400	0	400
Sub Total		3	600	0	600
6th Year maintenance					
1	Fire line tracing and Inspection path	1	200	0	200
2	Pruning, Watch and ward	2	400	0	400

Sub Total		3	600	0	600
7th Year maintenance					
1	Fire line tracing and Inspection path	1	200	0	200
2	Pruning, Watch and ward	2	400	0	400
Sub Total		3	600		600
8th Year maintenance					
1	Fire line tracing and Inspection path	1	200	0	200
2	Pruning, Watch and ward	2	400	0	400
Sub Total		3	600	0	600
9th Year maintenance					
1	Fire line tracing and Inspection path	1	200	0	200
2	Pruning, Watch and ward	2	400	0	400
Sub Total		3	600	0	600
10th Year maintenance					
1	Fire line tracing and Inspection path	1	200	0	200
2	Pruning, Watch and ward	2	400	0	400
Sub Total		3	600	0	600

ABSTRACT

Year	Person Days	Labour	Material	Total
0 th Year	26	4200.00	1000.00	5200.00
1 st . Year	98	17600.00	2000.00	19600.00
2 nd . Year	32	5800.00	600.00	6400.00
3 rd . Year	13	2600.00	0	2600.00
4 th Year	3	600.00	0	600.00
5 th Year	3	600.00	0	600.00
6 th Year	3	600.00	0	600.00
7 th Year	3	600.00	0	600.00
8 th Year	3	600.00	0	600.00
9 th Year	3	600.00	0	600.00
10 th Year	3	600.00	0	600.00
Total	190	34400.00	3600.00	38000.00
Person days Equivalent		172	18	190

Total Cost: Rs. 38,000.00 x 12.37 Ha = Rs. 4,70,060.00
(Rupees Four Lakh, Seventy Thousand, Sixty) only.



Divisional Forest Officer,

NORM FOR TRENCH WITH GREEN FENCING.

Size:- Top-2 mt, Bottom-1 mt, Height – 1.5 mt.

Volume of Earth :- 2.25 cum per running meter.

Cost Estimated in hard Soil:

@ Rs.88.00 per cum = 2.25 x 88.00 = Rs.198.0 per RMT.

Plantation of green hedges on the Soil

Mound alongwith material cost @ Rs.10.00 /- per RMT.

Cost of Trench

Cost of green hedges

Total Cost.

Rs.198.0 per RMT

Rs.10.00 per RMT

Rs.208.00/-per RMT

COST NORM FOR TRENCH WITH GREEN FENCING (PER HA.)

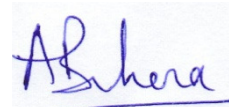
Labour Cost @ 200/-

Sl No.	Item of works	Mandays (In Rupee)	Labour cost	Material cost (In Rupee)	Total (In Rupees)
01	Trench of 2 mt. x 1 mt x 1.5 mt over 170 mt per ha @ Rs.208.00 @ RMT for 170 RMT per ha.	177	35400	0	35400

Total Rs.35400/- x 14.57 = Rs.5,15,778 /-

(Rupees Five Lakh, Fifteen Thousand, Seven Hundred Seventy Eight) only.

NB: Trench fencing has been provided in the Afforestation area over 14.57 ha in lieu of 14.53 ha forest land to be diverted against construction of Barrage across Aherajore Nallah at village Debdarha in Lakhanpur Block of Jharsuguda district. The cost norm has been approved in the Industrial Plantation Scheme by Govt. of Odisha, Forest & Environment as suggested in the minutes of 3rd meeting of the Board of Trustees of the “Orissa Environment Management Fund Trust” held on 30.05.2009.

A handwritten signature in blue ink, appearing to read 'A. B. Shera', with a horizontal line drawn underneath the name.

Divisional Forest Officer,
Jharsuguda Forest Division.

