SCHEME FOR COMPENSATORY AFFORESTATION OVER AN AREA OF 100.00 HA DEGRADED FOREST LAND IDENTIFIED IN BAZARGARH RF UNDER KESINGA FOREST RANGE OF KALAHANDI NORTH FOREST DIVISION AGAINST

PROPOSED DIVERSION OF 136.966 HA OF FOREST LAND FOR CONSTRUCTION OF CONSTRUCTION OF 220 KV DC TRANSMISSION LINE FROM EXISTING 220/132KV GRID SUB-STATION AT KESINGA, KALAHANDI DISTRICT TO PROPOSED 220/132/33 KV GRID SUB-STATION SIRTTIGURA UNDER K. NUAGAON TAHASIL IN KANDHAMAL DISTRICT, ODISHA.

BY

ODISHA POWER TRANSMISSION
CORPORATION LIMITED
BERHAMPUR

ELEMENTS OF THE SCHEME FOR COMPENSATORY AFFORESTATION

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CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

"Odisha Power Transmission Corporation Limited" (A Government of Odisha undertaking), having it's registered office at Janapath, Bhubaneswar, Dist: Khurda, Odisha is primarily entrusted to construct, successful operation and maintenance of EHT Transmission lines and Grid sub-stations with a mission to facilitate effective transfer of power, to improve voltage profile, to minimize interruption power supply, to enhance security/ reliability of power system, for strengthening of power system and to avail alternate power supply within and across the districts through villages of the Odisha state.

Odisha predominantly being an agricultural state and one of rich in mineral resources, expansion in the lift irrigation system and of different industries became essential. The power system of the state has some low voltage pockets in certain remote zones fed as tail end, causing high system loss. Therefore, it is proposed to improve in the system by way of installation new sub-stations in the transmission sector of the state.

The proposed Baliguda 220/33KV grid sub-station can be connected to the system by drawing 102.037 KM of 220KV DC line from existing 220/132 KV Grid Sub-Station at Kesinga for system strengthening purpose. It is proposed to install 2X40MVA, 220/33KV transformers at under construction 220/132/33 KV Grid Sub-Station at Sirtiguda under K.Nuagaon Tahasil, Kandhamal district.

In order to eradicate low voltage problem in the southern parts of the State, it is felt essential to go for installation of a new 2X40 MVA, 220/33 KV Grid sub-station at Baliguda. This will help in minimizing power interruption, improvement in voltage profile and to meet the future load demand in this area besides minimizing losses in the existing system.

Baliguda is one of the strategic towns in the district of Kandhamal. It is situated at the most backward area. The area adjoining to this strategic town is one of the maoist affected area. The habitants are mostly of Adivasi communities & especially the Kondhs. Yet there is no electricity access for a majority of its rural & tribal habitats. The surrounding area is extremely fertile and rich in agricultural products like paddy, oilseeds and vegetables. This will also improve the Socio-Economic condition of the in habitants. The consumers under rural electrification schemes like Rajiv Gandhi Grameen Vidyut, Yojna and Biju Gram Jyoti are likely to be benefited by the proposed project. The implementation of the project is required for eradication of low voltage profile.

Presently Baliguda area is drawing power at 33 KV from 132/33 KV Grid S/S at Phulbani on 33 KV Nuagaon feeder with a load of around 10MW. The present length of 33 KV line is around 80 KMs from existing 132/33 KV Grid S/S at Phulbani.

The land identified for Grid Sub-Station is around 6 KMs from Nuagaon Chhak which is around 25 KMs from Baliguda town. The location of the Grid S/S is so placed that this Grid S/S will be the central located between Baliguda, Daringbari and Nuagaon. Commissioning of proposed 220/33 KV Grid Sub-Station at Baliguda will ensure steady and reliable power supply and eradicate low voltage problem not only at Baliguda but also at Nuagaon, Daringbari, Tumudibandha and Phiringia area. After construction of the Grid S/S the loading area of Udayagiri and Raikia will also be considerably reduced, which is around 30 kms from Baliguda town. The present peak loading in Phulbani Grid S/S is around 29MW. The proposed Grid S/S at Baliguda can reduce the loading at Phulbani by 10MW.

In the present proposal, for construction of 220KV DC transmission line from existing 220/132 KV Grid Sub-Station at Kesinga (Latitude: 20°10'28.29"N & Longitude: 83°13'08.72"E) under Kesinga Tahasil, Kalahandi District along with its associated transmission line of 102.037 KM (approx) to 220/132/33 KV Grid Sub-Station at Sirttiguda in K. Nuagaon Tahasil (Latitude: 20°05'04-57"N & Longitude: 84°00'10.37"E) Kandhamal District. In order to achieve stability and to cater qualitative power in the transmission system of the State as well as to meet the increasing load demand. This line shall passing through Kesinga, Madanpur Rampur and Narla Tahasils of Kalahandi District & Tumudibandha, Baliguda & Nuagaon Tahasils of Kandhamal District.

The main thrust and emphasis is laid on the following:

- 1. Improvement of voltage profile.
- 2. To minimize interruption of power supply to consumers.
- 3. Enhance security / reliability of power system.
- 4. Strengthening of transmission system.
- Availability of alternate power supply.

This system shall also fulfill the requirement of additional power to these areas. Therefore, the power transmitted through this line will boost the small scale industries and agricultural growth of the area.

Therefore, this proposal is being submitted for diversion of forest land of 136,966 Ha (94,013 Ha in Baliguda Forest Division and 42,953 Ha in Kalahandi North Forest Division) for Construction of 220 KV DC Transmission line from existing 220/132KV Grid Sub-station at Kesinga, Kalahandi District to proposed 220/132/33 KV Grid Sub-station at Sirttigura under K. Nuagaon Tahasil in Kandhamal District.

Degraded Forest land over 100.00 Ha has been identified and allotted in Bazargarh RF under Kesinga Forest Range of Kalahandi North Forest Division, in favour of M/s Odisha Power Transmission Corporation Limited, Berhampur, vide letter No. 6413/4F-Misc.-2022 dated. 13th October 2022 the Divisional Forest Officer, Kalahandi North Division for raising Compensatory Afforestation. The Degraded Forest Land over 100.00 Ha has been considered for plantation under ANR model @500 seedlings / Ha has been prepared to this effect.

The present scheme aims at preparation of a site-specific Compensatory Afforestation scheme over 100.00 Ha of degraded forest land identified in Bazargarh RF under Kesinga Forest Range of Kalahandi North Forest Division at the prevailing per MD onetime cost norm approved by PCCF & HOFF, Odisha vide his Office Order No. 1109/9F-Misc-387/2021, dated 8th November 2021 with a maintenance period of ten years for raising Compensatory Afforestation ANR with gap plantation.

CHAPTER- II

DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION IDENTIFICATION OF DEGRADED FOREST LAND

II (1) - Details of identified Degraded Forest land-

The identified Degraded Forest land for Compensatory Afforestation is situated in Bazargarh RF under Kesinga Range of Kalahandi North Forest Division and Kalahandi District. This Forest Block is allotted to Improvement working circle in the present Working Plan.

II (2) - Character of existing vegetation of the identified site for Compensatory Afforestation-

The prevailing forest growth has been categorized under forest type- open jungle mainly Sal in SOI Topo Sheet No. F44X7 & F44X8. The vegetation consists of Sal and its scattered associates like Piasal, Asana, Sisoo, Kuruma, Karada, Dhaura, Sidha, Harida, Bahada and Ainla.

II (3) - Working Plan prescription for the identified site for Compensatory Afforestation-

The prescribed objectives of management for the identified forest block is depicted hereunder-

- Regenerate of the degraded forest blocks including the areas once affected by shifting cultivation, by appropriate silvicultural inputs and protection measures with people's participation.
- Improvement of the micro-climate and micro-edaphic conditions though soil and moisture conservation measures.
- 3. Encouragement of natural regeneration for increasing the biodiversity in forest crop.

II (4) - Suitability of the identified site for Compensatory Afforestation-

The identified site in Bazargarh RF is a degraded patch with existing vegetation of Sal and Sal associates. Gaps are sporadically spread over the forest block. The topography of the area is mainly undulating hilly having good depth of red boulder mixed soil conducive for plantation under ANR with Gap model @500 seedling per ha. The average maximum temperature is 40° to 45°C and minimum 5° to 10° C and annual rainfall varies from 1100 mm to 1800 mm. The maximum rainfall is received during the rainy season from July to September. The site has been demarcated with 4 feet RCC pillars with erection of durable signboard depicting Scheme, Year, User Agency, area etc. on it. Therefore, the CA scheme is envisaged to be executed with involvement of Baziapada VSS.

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CHAPTER-III

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

III (1) - DGPS COORDINATES AND GPS MAP OF THE COMPENSATORY AFFORESTATION SITE

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The area has been demarcated through DGPS survey and DGPS survey data showing latitude and longitude of each point and their chainage with bearing is also enclosed in the map prepared thereon (Maps enclosed).

III (2) DECISION SUPPORT SYSTEM- ANALYSIS OF FOREST COVER MAP

The map of the proposed CA land was processed using DSS for analysis of Forest cover over the area. The result obtained are depicted in the Annexure-____.

Decision Support System of degraded forest land identified in Bazargarh RF under Kesinga Range

| St. | Name of the | Area identified for | Non-Forest | Open Forest | Scrub |
| No. | Site | Plantation (in Ha) |
| 1 | Bazargarh RF | 100.00 | 0.57 | 0.37 | 0.08

CHAPTER- IV

AGENCY RESPONSIBLE FOR COMPENSATORY AFFORESTATION

IV (1) - AGENCY RESPONSIBLE FOR PLACEMENT OF FUNDS

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

IV (2) - AGENCY RESPONSIBLE FOR EXECUTION OF COMPENSATORY AFFORESTATION

The Territorial Wing of the Forest Department i.e. Divisional Forest Officer, Kalahandi North Forest Division will be assigned with the task for execution of the Compensatory Afforestation.

CHAPTER- V

DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION

A. PLANTING PLAN

Planting Plan reflects the site 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. Sizyziumeumim(Jamu)
- 2. Adina cardifolia(Kuruma)
- 3. Anogeissuslatifolio(Dhaura)
- 4. Albizialebbeck(Siris)
- 5. Dalbergiasisson(Sissoo)
- 6. Azadirrachtaindica(Neem)
- 7. Gmelinaarborea (Gambar)
- Terminaliabelerica(Bahada)
- 9. Terminaliachebula(Harida)
- 10. Pongamiapinnata (Karanja)
- 11. Emblicaofficinalis (Ainla)

B.PRE-PLANTING OPERATION

B(I)-RAISING OF PLANTATION STOCK- NURSERY-

Nursery will be raised @550 18 months old seedlings per ha including seedlings for 10% causality replacement.

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

The planting area has been surveyed and demarcated with four feet height RCC pillars at inter visible distance (as per the direction of the Forest Range Officer, KesingaRange) with DGPS coordinates, Pillar No. and distance between pillars inscribed in it. A DGPS map in the scale of 1:3960 has been prepared along with DGPS co-ordinates, pillar to pillar distance and pillar numbers reflected in the map. A sign board has been erected at a conspicuous location with name of the site, scheme, area etc. depicted on it.

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

The clearing of the 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 45cm X45cm X45 cm, will be dug at 500 per ha in the available gaps preferably 2 months before or at least a month before planting of seedlings.

C. PLANTING OPERATION

Planting of 18months old seedlings will be taken up in the month of July. 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 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 heal 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 stumps is complete or after the seedlings 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 artificial fertilizers, N.P.K. and Urea will be applied in two split doses one in August and the other in September.

D(4)-SOIL MOISTURE CONSERVATION MEASURES

Soil Moisture Conservation measure structures to be carried like Staggered Trench, Percolation Pit, Contour trench, Graded earthen bund, LBCD, Wire mesh LBCD, Sub-surface Dyke and Water Harvesting Structure (WHS) as per the slope & site requirement on LS.

D(5)-PROTECTION AGAINST FIRE AND BIOTIC INTERFERENCE

It is proposed to protect the CA plantation from grazing by domestic animals using Bamboo Twings&Throns. The total length of such fencing comes to 5.115Km (5115 M). Fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved norm for protecting the plantation from grazing with involvement of BaziapadaVSS.

Nursery Cost Norm for raising of 1000 (18 months) seedlings

Wage rate @ 311 per Manday

	Nursery Cost Norm for	raising of	10001)	IN mount	thal sea	cillings		
	W	Vage rate 6	311	per M	enday			
SL. No	Hems of wark	Preferable Period of Execution	(Indx	Cost	Nu./ Qty	Labour Cost	Statestal Cost	Tutal Cast
	A. 19t Finencial		ngs Cost	for 3 Mi	inths)			
1	Cast for Polythene (9" X 5"X (2005) 100 see, /Kg. - 3.13 Kgsriis (2007) per Kg. (isolading GSY)	Now Dec	ΧZ	308	3.51	u	993	653
	Procurement of raw & create Polypot Mixture (Soil, Sand & CDM in ratio (2:1:1)							
	(\$2) Saul	Nov-Tec	Ot	10	22	9	220	226
I	(V) Sand	Nav-Dec	Ch	16	11	e e	176	176
	(III) CDM/ Vermi composit/ flur Fortilisers etc.	Nov-tles	Ch	25	11	0	275	275
	(iv) Insecticide/ lin-Pesticide	Non-Dec	Fig.	150	2	0	300	300
1	Proparation of Soil Mixture includes pulverisation, Straining & mixing the ingredients in proper natio. (2:1:1)	Nov-Dec	MD	311	2	622	0	622
4	Filling of polythese logs & Setting in the best	Nov. Jec.	MU	311	3	533	0	933
5	Cultretins of Seed, Crading & Treatment	Dec	MD	311	2	622		622
	Preparation of gravitation had & dibbling of seed.	3er	MD	211	0.5	155.5	0	155.5
7	Pricking mit the Seculings from germineaus heals & transplanting in the Poly hage and expending sheds	Jan	MD	311	2	622	500	1122
n .	Watering (Jan to March)	Jan-Mar	MD	321		2799	0	2799
,	Naintenance of Norsery including fencing	Jan-Mar	MD	311	4	1284	500	1744
10	Contingencies (Water can, Buckets, Nursery sheek, Sectricity charges) (Manal charges) Maintenance of pump set/ Malitenance of Nursery, etc.)			9			460.5	460.5
	TOTAL				22.5	6997.5	3124.1	10171
. 21	nd Financial Year (Shifting of Seedlings to large	r Polythene	hag to a	esid res	t colling	g & better g	prowth) Ap	ril-Mars
1 1	Wignering for 3 months (April to June)	April-June	MO	311	9	2799	0.0	2799
$\overline{}$	Cost of Insecticides/ No Perticide	May June	Ng/li	-0		0	400.0	400
	Application of inserticides/ Blir Pentirule	May June	MD	311	1	311	.0	311
	Cost of Poly pot (12" X 19" X 900 gauge) 60 mm. - 17 Kg ft 8x 208 per Kg. (including GST)	May June	Kz	208	17	0	3536	3536

Abstern Limitation in paying of Child Life and the Strongs

		Wage 1989 S	311	greet No.	and the			
10	Transfer of the control of	Protestable Protestion	tone	Elmin Famil	741 (81)		Matterna Carel	Peta Yard
	Promoteonical control to a service diagnosis Manager (Seel, Reed & 1286), in usua (2-1-1).							
	Dig Neel	Apr.: Mag.	28	167] is	-	Linini	inies
	(Sid fame)	Spi/95m	0	16			200	201
	State COM/Vermi company the Personnel at-	Am/Mer	01	21	-	0	1250	1256
	(br) texections / Hop Petitods	Asc/May	Xig	X10			450	408
	Properties of period relative excluding pulmination and ecologic	Ser See	360	311		inc		1966
ŧ	Fifting of Polystene bugs notating reporting and sorting	Oct-Nov	160	311	30	1000		LUMES
*	Watering	Dry March	F0	711	15	1905		Inter
19	Serting, Westing, grading and resetting mere and year period	April-March	AUD	311	1.0	4665		#nn5
10	Contingencies (Water co., Backets, Norsery shad, Bectsuing charges) Damii charges; Halimonote of pump un;! Halimonesce of Norsery, str.]						400	800
4	TIFTAL				#3	28435	7924	14271
_	C 2nd Financial Year	Watermanny	upto M	onting) A	Qr#4	ane .		100
1	Watering for 3 menths (April to June)	Aprol-Jame	360	311	12	3732	0	1732
2	Wooding, Dictions and grading	April-June	MD.	311	4	1244		1314
1	Cast of Yearstichtes/ No-Postunde						ADE	Abs.
•	Application of inverticides/ Em-Preticide		MID	211	1	311	0	311
E.	Continguacies						230	138
4	TUTAL	ABSTRACT			17	1297	650	9917
	hom of work	STEED SHOULD				Labout	Material	Your
T	or Francial Year (Seedings Ont See 3 Months)				-	Cont	Gest	Cent
_	and Financial Vene (12 Months)		_		-	BRD/2	3124.1	50122
-	Int Financial Four (7 Months)				-	pers.	THOSE	34211
-	The state of the s			-	Tutal	38719.5	630	5827
at j	er 18 manths eld Sondlinger 58310/1000 o Ro	58.31/-			i deper	38779.5	115961	56711
h	he Cost Room of various farms can be change worall cost norm fixed for each Financial Year	of with the in	proval	of the p	oncer	ned RCCFs	keeping th	
				Al	1	mo	rains A NO.	PCA(1)

CHAPTER- VI

s parent se

	REGENERATION (ANR) @ 500	SEEDLING te Rs.311/- P	The second second	A COLUMN TO SERVICE SE	as old seedlin	g)
SL No.	Item of Work	Preferable Period of Execution	No of Mandays	Labour cost (In Rs.)	Material cost (In Rs.)	Total cost (In Rs.)
1	2	3	4	5	6	7
	0th Year (Adva	ace Work) P	re-Planting	Operation		
1.	Survey, Demarcation and Pillar Posting	Nov-Dec	2	622.00	0.00	622.00
2,	Preparation of Treatment Map (Digital Map)	Nov-Dec	1	311.00	100.00	411.00
3.	Site preparation	Nov-Dec	2	622.00	0.00	622.00
4.	Silvicultural operation including clearance of weed, cutting of climber, High stump cutting, singling of shoots & removal of cut out after drying from the field to blank space	Feb-Mar	15	4665.00	0.00	4665.00
5.	Alignment and stacking for digging of pits	Feb-Mar	E	311.00	0.00	311.00
6.	Digging of pits (45 cm x 45 cm x 45 cm) in hard and gravelly soil	Feb-Mar	20	6220.00	0.00	6220.00
	Sub Total =		41	12751.00	100.00	12851.00
		Year/Planti	ng Year			
Ĭ,	Refilling of pits by altering the dugout soil of the pits, application of organic compounds /CDM/FYM & Mixing the same perfectly.	Jun-Jul	4	1244.00	2500.00	3744.00
2.	Transportation of 18 months old polythene bag seedlings in hired truck/tractor from the Permanent/Mega nursery to planting site including loading & unloading. (Average lead of 10 Rkm) & stacking the seedling @ Rs.6/- per Seedling. (550 nos.)	Jul-Aug	0	0	3300.00	3300.00
3.	Watering polythene bag seedlings at stacking site of plantation	Jol-Aug	i.	311.00	0	311.00
4.	Conveyance of polythene bag seedlings on head load from the stacking site to individual dugout pits within the planting site, applying insecticide, fertilizers & planting after scooping the soil with other applied materials & pressing the soil perfectly around the planted seedlings.	Jul-Aug	11	3421.00	0	3421.00
5.	Cost of Fertilizer & Insecticide a. NPK/Bio-fertilizer @ 50 gms/plant as basal dose = 25kg @ Rs.30/- per kg = Rs.750.00 b. Urea/Vermi compost /Mo Khata/any other fertilizer @ Rs.375.00 c. Insecticide/Bio-pescticide @ 5 gms/plant = 2.5kg @ Rs.150/- per kg = Rs.375.00	Jul-Aug	0	0	1500.00	1500,00
6.	Casualty Replacement@ 10% (50 nos.)	Jul-Aug	1.5	466.50	0	466.50
7.	1" weeding & Manuring	Aug-Sept	5	1555,00	0	1555.00

8						
	2 nd Weeding, Soil working (1mt.) diameter around the plants) & Manuring	Oct-Nov	8	2488.00	0.	2488.00
9.	Fire line Tracing & inspection path	Feb-Mar	3	933.00	0	933.00
10.	Watch & ward including watering as per requirement	Aug-Mar	8	2488.00	0	2488.00
_	Sub Total =		41.5	12906.50	7300.00	20206.50
	The state of the s	d Year Maint		12.000		
	Transportation of 50 seedlings from		CHILITE			
I.	Nursery to plantation site including loading unloading & conveyance by Tractor @ Rs.6/- per seedling	Jul	0	0.00	300.00	300,00
2.	Casualty replacement	Jul	1.5	466.50	0.00	466.50
3,	Cost of Fertilizer & Insecticide a. Cost of Insecticide/Bio- pesticide (Themet/Forate) (a) 5 gms/plant = 0.25 kg (a) Rs. 150/- per kg = Rs. 37.50/- h. Urea/NPK/Bio- fertilizer/Vermicompost/Mo Khata/any other fertilizer (a) Rs.1400/-	Jul	0	0.00	1437.50	1437.50
4.	Weeding (Complete weeding), Manuring & Soil working, (1mt, diameter around the plants)	Sep-Oct	8	2488.00	0.00	2488.00
5.	Fire line tracing (2m. wide fire line over 400 m long) & inspection path	Feh-Mar	3	933:00	0.00	933.00
6.	Watch & Ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		24.5	7619.50	1737.50	9357.00
	3'	Year Mainte	епансс			
L	Cost of Fertilizer (Urea/NPK/Bio- fertilizer/Vermi compost/Mo Kluta/any other fertilizer =Rs.1400/-	Sep-Oct	0	0.00	1400.00	1400.00
2.	Wooding (Complete wooding), Manuring & Soil working, (1mt, diameter around the plants)	Aug-Sep	.8	2488.00	0.00	2488.00
3.	Fire line tracing (2m. wide fire line & inspection path	Feb-Mar	3	933.00	0.00	933:00
				1 - 1 - 1 - 1		1316
4.	Watch & ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	
4,		Apr-Mar	12	3732.00 7153.00	0.00	3732.00 8553.00
4.	per requirement Sub Total =	Apr-Mar	23	1000000	2,367.0.	3732.00
1.	per requirement Sub Total =		23	1000000	2,367.0.	3732.00
1.	per requirement Sub Total = 4th Fire line tracing (2m. wide fire line	h Year Maint	23 enance	7153.00	1400.00	3732.00 8553.00
1.	Pire line tracing (2m. wide fire line over 400 m length) & inspection path Watch & ward including watering as	h Year Maint Feb-Mar	23 enance 3	7153.00 933.00	0.00	3732.00 8553.00 933.00
1.	per requirement Sub Total = 4tl Fire line tracing (2m. wide fire line over 400 m length) & inspection path Watch & ward including watering as per requirement Sub Total =	h Year Maint Feb-Mar	23 cnance 3 12	7153.00 933.00 3732.00	0.00	3732.00 8553.00 933.00 3732.00
1.	per requirement Sub Total = 4tl Fire line tracing (2m. wide fire line over 400 m length) & inspection path Watch & ward including watering as per requirement Sub Total =	h Year Maint Feb-Mar Apr-Mar	23 cnance 3 12	7153.00 933.00 3732.00	0.00	3732.00 8553.00 933.00 3732.00
1.	Pire line tracing (2m. wide fire line over 400 m length) & inspection path Watch & ward including watering as per requirement Sub Total = 5ti Fire line tracing (2m. wide fire line over 400 m length) & inspection path Watch & ward including watering as	h Year Maint Feb-Mar Apr-Mar	23 chance 3 12 15 chance	7153.00 933.00 3732.00 4665.00	0.00 0.00 0.00 0.00	3732.00 8553.00 933.00 3732.00 4665.00
1.	Pire line tracing (2m. wide fire line over 400 m length) & inspection path Watch & ward including watering as per requirement Sub Total = 5ti Fire line tracing (2m. wide fire line over 400 m length) & inspection path Watch & ward including watering as per requirement	h Year Maint Feb-Mar Apr-Mar N Year Maint Feb-Mar	23 cnance 3 12 15 cnance 3	7153.00 933.00 3732.00 4665.00 933.00 3732.00	0.00 0.00 0.00 0.00 0.00	3732.00 8553.00 933.00 3732.00 4665.00 933.00 3732.00
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T.	Fire line tracing (2m. wide fire line over 400 m length) & inspection path	Feb-Mar	3	933.00	0.00	933.00
2	Watch & ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		15	4665.00	0.00	4665.00
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ij	Fire line tracing (2m. wide fire line over 400 m length) & inspection path	Feb-Mar	3	933.00	0.00	933.00
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i.	Fire line tracing (2m. wide fire line over 400 m length) & inspection path	Feb-Mar	3	933,00	0.00	933,00
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ì.	Fire line tracing (2m. wide fire line over 400 m length) & inspection path	Feb-Mar	3	933.00	0.00	933.00
2.	Watch & ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
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				ABSTRA	CT		
SL No.	Item of Work	Preferable Period of Execution	No. of Mandays	Labour Cost (In Rs.)	Material Cost In Rs.)		Total Cost (In Rs.)
SL No.	Year	No. of person days	Labour cost Rs. 311/- per day Rs.	Material cost (In Rs.)	Monitoring, Evaluation, Learning, Documentation & other Contingency 5% of (4+5)	Cost of Seedlings @ 50.31 per seedlings	Total Cost (In Rs.)
1	2	3	4	5	6	7	8
1.	0th Year	41	12751.00	100.00	549.00	0.00	13400.00
2.	1st Year	41.5	12906.50	7300.00	993.50	27671.00	48871.00
3.	2nd Year	24.5	7619.50	1737.50	443.00	2516.00	12316.00
4.	3rd Year	23	7153.00	1400.00	347.00	0.00	8900.00
5.	4th Year	15	4665.00	0.00	135.00	0.00	4800.00
6.	5th Year	15	4665.00	0.00	135.00	0.00	4800.00
7_	6th Year	15	4665.00	0.00	135.00	0.00	4800.00
8.	7th Year	15	4665.00	0.00	135.00	0.00	4800.00
9.	8th Year	15	4665.00	0.00	135.00	0.00	4800.00
10.	9th Year	15	4665.00	0.00	135.00	0.00	4800.00
11.	10th Year	15	4665.00	0.00	135.00	0.00	4800.00
	Total =	235.0	73085.00	10537,50	3277.50	30187.00	117087.00

Base Cost Norms for Compensatory Afforestation through Aided Natural Regeneration (ANR) @ 500 Seedlings / Ha.

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Matrix for Model-II A (ANR 500 Plants/Ha)

Cost Norms for Creation of Compensatory Afforestation with Stabilization of Soil Moisture Conservation (SMC)

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Matrix for (SMC)

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TOTAL COST OF CA SCHEME (AS PER BASE COST NORM)

S. No.	Item of Work	In Rupees
1	Base Norm (Year 2023-2024)	1, 50, 051.00
2	Soil Moisture Conservation (SMC)(2023-2024)	39,284.00
3	Fencing Bamboo Lwings & Throns (2023-2024)	1,15,725.00
4	Watering Diesel Pump set fitted with bore well (2023-2024)	5,27,321.00
5	Sub-Total	8,32,381,00
6:	Total Plantation cost over 100.00 Ha (Rs. 8, 32, 381.00 X 100.00 Ha)	8, 32, 38,100.00 OR 8,32,38,500.00

(Rupees Eight crore Thirty Two lakh Thirty Eight thousand five hundred) only

A. PROVISION OF FUNDS AND FUND UTILIZATION

Rs. 8,32,38,500.00/-(Rupces Eight crore Thirty Two lakh Thirty Eight thousand five hundred) only shall be deposited by the User Agency M/s OPTCL. Berhampur on approval of the scheme to the Ad-hoc CAMPA Account and the funds will be utilized for ruising of Compensatory Afforestation by the Divisional Forest Officer, Kalahandi North Forest Division on allotment by the Principal Chief Conservator of Forests, Odisha, Bhuhaneswar.

Divisional Forest Officer, Kalahandi North Forest Division

CHAPTER- VII

DETAILS OF PROPOSED MONITORING MECHANISM

Compensatory Afforestation will be taken up in the identified site by the Range Officer, Kesinga Range of Kalahandi North Division. The Range Forest Officer, Kesinga 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, Kalahandi North Forest Division. DGPS co-ordinates along with other required informations of Compensatory Afforestation will be uploaded in the e-Green watch Portal of NIC, MoEF, Govt. of India for the purpose of online monitoring. Annual progress of plantation involving growth of planted seedlings, survival percentage etc. will be monitored and recorded in the plantation journal by the field staffs of Kesinga Range and reported to the Divisional Forest Officer for necessary action. The same thing will be reported to the Regional Chief Conservator of Forests, Bhawanipatna Circle and Chief Conservator of Forests (PP&A), O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar and necessary corrective measures will be followed if required so.

Divisional Forest Officer. Kalahandi North Forest Division

CERTIFICATE ON DSS ANALYSIS FOR CA / ACA / PCA

degraded forest land in Bazargarh RF of Kalahandi North Division in lieu of diversion of forest proposed 220/132/33 KV Grid Sub Station Baliguda and subsequent ground truthing have been land for 220 KV DC Transmission line from existing 220/132 KV Grid Sub Station at Kesinga to done. The Outcome is as mentioned below: This is to certify that DSS Analysis of Land identified for CA/ ACA/ PCA over 100 ha.of

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SCHEME FOR COMPENSATORY AFFORESTATION OVER AN AREA OF 25.00 HA DEGRADED FOREST LAND IDENTIFIED IN HATIMUNDA (THUAPADAR GUNDI DPF) UNDER BHAWANIPATNA FOREST RANGE OF KALAHANDI NORTH FOREST DIVISION

10

AGAINST

PROPOSED DIVERSION OF 136,966 HA OF FOREST LAND FOR CONSTRUCTION OF CONSTRUCTION OF 220 KV DC TRANSMISSION LINE FROM EXISTING 220/132KV GRID SUB-STATION AT KESINGA, KALAHANDI DISTRICT TO PROPOSED 220/132/33 KV GRID SUB-STATION AT SIRTTIGURA UNDER K. NUAGAON TAHASIL IN KANDHAMAL DISTRICT, ODISHA.

BY

ODISHA POWER TRANSMISSION CORPORATION LIMITED BERHAMPUR

ELEMENTS OF THE SCHEME FOR COMPENSATORY AFFORESTATION

HAPTER	PARTICULARS	PAGE NUMBER
1	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	03-04
п	DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION	05-05
111	DELINEATION OF PROPOSED AREA ON SUITABLE MAP	06-06
IV	AGENCY RESPONSIBLE FOR COMPENSATORY AFFORESTATION	06-06
V	DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION	07-08
	NURSERY COST NORM FOR RAISING OF 1000 (18 MONTHS) SEEDLINGS WAGE RATE @ 311 PERDAY	09-10
	BASE COST NORMS FOR COMPENSATORY AFFORESTATION THROUGH AIDED NATURAL REGENERATION (ANR) @ 500 SEEDLINGS / HA. WAGE RATE RS. 311/- PER MANDAY & MATRIX FOR ANR-500 PLANTS / HA	11-17
VI	COST NORMS FOR CREATION OF COMPENSATORY AFFORESTATION WITH STABILIZATION OF SOIL MOISTURE CONSERVATION (SMC) & MATRIX FOR (SMC)	18-19
7.81	FENCING MODEL-F-II FENCING FOR COMPENSATORY PLANTATION RAISED OUTSIDE THE FOREST AREAS USING ANGLE IRON & CITAIN LINK WIRE MESH (250 RMT / IIA) & MATRIX FOR FENCING MODEL -F-II (IRON ANGLE WITH CHAINLINK WIRE MESH)	20-21
	WATERING MODEL - W-II WATERING PROVISION TO CA PLANTATION & MATRIX FOR WATERING MODEL -W-II (DIESEL PUMPSET FITTED WITH BOREWELL) PER HA	22-23
	TOTAL COST OF PROJECT	24-24
VII	DETAILS OF PROPOSED MONITORING MECHANISM	25-25

CHAPTER-1

17.4

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

"Odisha Power Transmission Corporation Limited" (A Government of Odisha undertaking), having it's registered office at Janapath, Bhubaneswar, Dist: Khurda, Odisha is primarily entrusted to construct, successful operation and maintenance of EHT Transmission lines and Grid sub-stations with a mission to facilitate effective transfer of power, to improve voltage profile, to minimize interruption power supply, to enhance security/ reliability of power system, for strengthening of power system and to avail alternate power supply within and across the districts through villages of the Odisha state.

Odisha predominantly being an agricultural state and one of rich in mineral resources, expansion in the lift irrigation system and of different industries became essential. The power system of the state has some low voltage pockets in certain remote zones fed as tail end, causing high system loss. Therefore, it is proposed to improve in the system by way of installation new sub-stations in the transmission sector of the state.

The proposed Baliguda 220/33KV grid sub-station can be connected to the system by drawing 102.037 KM of 220KV DC line from existing 220/132 KV Grid Sub-Station at Kesinga for system strengthening purpose. It is proposed to install 2X40MVA, 220/33KV transformers at under construction 220/132/33 KV Grid Sub-Station at Sirtiguda under K.NuagaonTahasil, Kandhamal district.

In order to eradicate low voltage problem in the southern parts of the State, it is felt essential to go for installation of a new 2X40 MVA, 220/33 KV Grid sub-station at Baliguda. This will help in minimizing power interruption, improvement in voltage profile and to meet the future load demand in this area besides minimizing losses in the existing system.

Baliguda is one of the strategic towns in the district of Kandhamal. It is situated at the most backward area. The area adjoining to this strategic town is one of the maoist affected area. The habitants are mostly of Adivasi communities & especially the Kondhs. Yet there is no electricity access for a majority of its rural & tribal habitats. The surrounding area is extremely fertile and rich in agricultural products like paddy, oilseeds and vegetables. This will also improve the Socio-Economic condition of the in habitants. The consumers under rural electrification schemes like Rajiv Gandhi GrameenVidyut, Yojna and Biju Gram Jyoti are likely to be benefited by the proposed project. The implementation of the project is required for eradication of low voltage profile.

Presently Baliguda area is drawing power at 33 KV from 132/33 KV Grid S/S at Phulbani on 33 KV Nuagaon feeder with a load of around 10MW. The present length of 33 KV line is around 80 KMs from existing 132/33 KV Grid S/S at Phulbani.

The land identified for Grid Sub-Station is around 6 KMs from NuagaonChhak which is around 25 KMs from Baliguda town. The location of the Grid S/S is so placed that this Grid S/S will be the central located between Baliguda, Daringbari and Nuagaon. Commissioning of proposed 220/33 KV Grid Sub-Station at Baliguda will ensure steady and reliable power supply and cradicate low voltage problem not only at Baliguda but also at Nuagaon, Daringbari, Turnudibandha and Phiringia area. After construction of the Grid S/S the loading area of Udayagiri and Raikia will also be considerably reduced, which is around 30 kms from Baliguda town. The present peak loading in Phulbani Grid S/S is around 29MW. The proposed Grid S/S at Baliguda can reduce the loading at Phulbani by 10MW.

In the present proposal, for construction of 220KV DC transmission line from existing 220/132 KV Grid Sub-Station at Kesinga (Latitude: 20°10′28.29°N & Longitude: 83°13′08.72°E) under KesingaTahasil, Kalahandi District along with its associated transmission line of 102.037 KM (approx) to 220/132/33 KV Grid Sub-Station at Sirttiguda in K. NuagaonTahasil (Latitude: 20°05′04.57°N & Longitude: 84°00′10.37°E) Kandhamal District. In order to achieve stability and to eater qualitative power in the transmission system of the State as well as to meet the increasing load demand. This line shall passing through Kesinga, Madanpur Rampur and NarlaTahasils of Kalahandi District &Tumudibandha, Baliguda&NuagaonTahasils of Kandhamal District.

The main thrust and emphasis is laid on the following:

- 1. Improvement of voltage profile.
- 2. To minimize interruption of power supply to consumers.
- 3. Enhance security / reliability of power system.
- 4. Strengthening of transmission system.
- 5. Availability of alternate power supply.

This system shall also fulfill the requirement of additional power to these areas. Therefore, the power transmitted through this line will boost the small scale industries and agricultural growth of the area.

Therefore, this proposal is being submitted for diversion of forest land of 136.966 Ha (94.013 Ha in Baliguda Forest Division and 42.953 Ha in Kalahandi North Forest Division)for Construction of 220 KV DC Transmission line from existing 220/132KV Grid Sub-station at Kesinga, Kalahandi District to proposed 220/132/33 KV Grid Sub-station at Sirttigura under K. NuagaonTahasil in Kandhamal District.

Degraded Forest land over 25.00 Ha has been identified and allotted in Hatimunda(ThuapadarGundi DPF) under BhawanipatnaForest Range of Kalahandi North Forest Division, in favour of M/s Odisha Power Transmission Corporation Limited, Berhampur, vide letter No. 6413/4F-Misc.-2022 dated. 13th October 2022 the Divisional Forest Officer, Kalahandi North Forest Division for raising Compensatory Afforestation. The Degraded Forest Land over 25.00 Ha has been considered for plantation under ANR model (i):500 seedlings / Ha has been prepared to this effect.

The present scheme aims at preparation of a site-specific Compensatory Afforestation scheme over 25.00 Ha of degraded forest land identified in Hatimunda(ThuapadarGundi DPF)under Bhawanipatna Forest Range of Kalahandi North Forest Division at the prevailing per MD onetime cost norm approved by PCCF & HOFF, Odisha vide his Office Order No. 1109/9F-Misc-387/2021, dated 8th November 2021 with a maintenance period of ten years for raising Compensatory Afforestation ANR with gap plantation.

CHAPTER- II

DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION

IDENTIFICATION OF DEGRADED FOREST LAND

II(1)- Details of identified Degraded Forest land-

The identified Degraded Forest land for Compensatory Afforestation is situated in Hatimunda(ThuapadarGundi DPF)under Bhawanipatna Forest Range of Kalahandi North Forest Division and KalahandiDistrict. This Forest Block is allotted to Improvement working circle in the present Working Plan.

II(2)- Character of existing vegetation of the identified site for Compensatory Afforestation-

The prevailing forest growth has been categorized under forest type- open jungle mainlySal in SOI Topo Sheet No. E44F5. The vegetation consists of Sal and its scattered associates like Piasal, Asana, Sisoo, Kuruma, Karada, Dhaura, Sidha, Harida, Bahada and Ainla.

II(3)- Working Plan prescription for the identified site for Compensatory Afforestation-

The prescribed objectives of management for the identified forest block is depicted hereunder-

- Regenerate of the degraded forest blocks including the areas once affected by shifting cultivation, by appropriate silvicultural inputs and protection measures with people's participation.
- Improvement of the micro-climate and micro-edaphic conditions though soil and moisture conservation measures.
- 3. Encouragement of natural regeneration for increasing the biodiversity in forest crop.

II(4)- Suitability of the identified site for Compensatory Afforestation-

The identified site in Hatimunda(ThuapadarGundi DPF) is a degraded patch with existing vegetation of Sal and Sal associates. Gaps are sporadically spread over the forest block. The topography of the area is mainly undulating hilly having good depth of red boulder mixed soil conducive for plantation under ANR with Gap model @500 seedling per ha. The average maximum temperature is 40° to 45°C and minimum 5° to 10°C and annual rainfall varies from 1100 mm to 1800 mm. The maximum rainfall is received during the rainy season from July to September. The site has been demarcated with 4 feet RCC pillars with erection of durable signboard depicting Scheme, Year, User Agency, area etc. on it. Therefore, the CA scheme is envisaged to be executed with involvement of BaziapadaVSS.

CHAPTER-III

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

III(1)- DGPS COORDINATES AND GPS MAP OF THE COMPENSATORY AFFORESTATION SITE

The area has been demarcated through DGPS survey and DGPS survey data showing latitude and longitude of each point and their chainage with bearing is also enclosed in the map prepared thereon (Maps enclosed).

III(2) DECISION SUPPORT SYSTEM- ANALYSIS OF FOREST COVER MAP

The map of the proposed CA land was processed using DSS for analysis of Forest cover over the area. The result obtained are depicted in the Annexure-

Decision Support System of degraded forest land identified in Hatimunda Thuapadar Gundi DPF under Bhawanipatna Range

In Su. Km

			4.11	STATE CONTRACTOR
SI, No.	Name of the Site	Area identified for Plantation (in Ha)	Non- Forest	Open Forest
13	Hatimunda(ThuapadarGundi DPF)	25.00	0.05	0.19

CHAPTER- IV

AGENCY RESPONSIBLE FOR COMPENSATORY AFFORESTATION

IV(1)- AGENCY RESPONSIBLE FOR PLACEMENT OF FUNDS

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

IV(2)- AGENCY RESPONSIBLE FOR EXECUTION OF COMPENSATORY AFFORESTATION

The Territorial Wing of the Forest Department i.e. Divisional Forest Officer, Kalahandi NorthForest Division will be assigned with the task for execution of the Compensatory Afforestation.

CHAPTER- V

DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION

A. PLANTING PLAN

Planting Plan reflects the site 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. Sizyziumcumini(Jamu)
- 2. Adina cardifolia(Kuruma)
- 3. Anogeissuslatifolia(Dhaura)
- 4. Alhizialehheck(Siris)
- 5. Dalbergiasissoo(Sissoo)
- 6. Azadirrachtaindica(Neem)
- 7. Gmelinaarhorea (Gambar)
- 8. Terminaliabelerica(Bahada)
- 9. Terminaliachehula(Harida)
- 10. Pongamiapinnata (Karanja)
- 11. Emblicaofficinalis (Ainla)

B.PRE-PLANTING OPERATION

B(I)-RAISING OF PLANTATION STOCK- NURSERY-

Nursery will be raised @550 18 months old seedlings per ha including seedlings for 10% causality replacement.

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

The planting area has been surveyed and demarcated with four feet height RCC pillars at inter visible distance (as per the direction of the Forest Range Officer, Bhawanipatna Range) with DGPS coordinates, Pillar No. and distance between pillars inscribed in it. A DGPS map in the scale of 1:3960 has been prepared along with DGPS coordinates, pillar to pillar distance and pillar numbers reflected in the map. A sign board has been erected at a conspicuous location with name of the site, scheme, area etc. depicted on it.

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

The clearing of the 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 45cm X45cm X45cm, will be dug @500 per ha in the available gaps preferably 2 months before or at least a month before planting of seedlings.

C. PLANTING OPERATION

Planting of 18 months old seedlings will be taken up in the month of July. 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 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 beal 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 stumps is complete or after the seedlings 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 artificial fertilizers, N.P.K. and Urea will be applied in two split doses one in August and the other in September.

D(4)-SOIL MOISTURE CONSERVATION MEASURES

Soil Moisture Conservation measure structures to be carried like Staggered Trench, Percolation Pit, Contour trench, Graded earthen bund, LBCD, Wire mesh LBCD, Sub surface Dyke and Water Harvesting Structure (WHS) as per the slope & site requirement on LS.

D(5)-PROTECTION AGAINST FIRE AND BIOTIC INTERFERENCE.

It is proposed to protect the CA plantation from grazing by domestic animals using Bamboo Twings &Throns. The total length of such fencing comes to 5.073Km (5073M). Fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved norm for protecting the plantation from grazing with involvement of Baziapada VSS.

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TOTAL COST OF CA SCHEME (AS PER BASE COST NORM)

S. No.	Item of Work	In Rupees
1	Base Norm (Year 2023-2024)	1,50,051.00
2	Soil Moisture Conservation (SMC)(2023-2024)	39,284.00
38	Fencing Bamboo Twigs & Throns (2023-2024)	1,10,214.00
4.	Watering Diesel Pump set fitted with bore well (2023-2024)	5, 27,321.00
5	Sub-Total	8,26, 870,00
6	Total Plantation cost over 25.00 Ha (Rs. 8, 26, 870.00 X 25.00 Ha)	2, 06, 71, 750.00 OR 2, 06, 71, 800.00

(Rupees Two crore six lakh Seventy one thousand Eight hundred) only

A. PROVISION OF FUNDS AND FUND UTILIZATION

Rs. 2, 06, 71, 800.00/- (Rupees Two erore six lakh Seventy one thousand Eight hundred) only shall be deposited by the User Agency M/s OPTCL, Berhampur on 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, Kalahandi North Forest Division on allotment by the Principal Chief Conservator of Forests, Odisha, Bhubaneswar,

Divisional Forest Officer, Kalahandi North Forest Division

CHAPTER- VII

10.

DETAILS OF PROPOSED MONITORING MECHANISM

Compensatory Afforestation will be taken up in the identified site by the Range Officer, Bhawanipatna Range of Kalahandi North Division. The Range Forest Officer, Bhawanipatna 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, Kalahandi NorthForest Division. DGPS co-ordinates along with other required informations of Compensatory Afforestation will be uploaded in the e-Greenwatch Portal of NIC, MoEF, Govt. of India for the purpose of online monitoring. Annual progress of plantation involving growth of planted seedlings, survival percentage etc. will be monitored and recorded in the plantation journal by the field staffs of Bhawanipatnaand reported to the Divisional Forest Officer for necessary action. The same thing will be reported to the Regional Chief Conservator of Forests, Bhawanipatna Circle and Chief Conservator of Forests (PP&A), O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar and necessary corrective measures will be followed if required so.

Divisional Forest Officer, Kalahandi North Forest Division

CERTIFICATE ON DSS ANALYSIS FOR CA / ACA / PCA

Kesinga to proposed 220/132/33 KV Grid Sub Station Baliguda and subsequent ground truthing degraded forest land in Thuapadar Gundi DPF of Kalahandi North Division in lieu of diversion of have been done. The Outcome is as mentioned below: forest land for 220 KV DC Transmission line from existing 220/132 KV Grid Sub Station at This is to certify that DSS Analysis of Land identified for CA/ ACA/ PCA over 25 ha.of

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SCHEME FOR COMPENSATORY AFFORESTATION OVER AN AREA OF 25.00 HA DEGRADED FOREST LAND IDENTIFIED IN PATTOLA (SINANG RF) UNDER BHAWANIPATNA FOREST RANGE OF KALAHANDI NORTH FOREST DIVISION

AGAINST

PROPOSED DIVERSION OF 136.966 HA OF FOREST LAND FOR CONSTRUCTION OF CONSTRUCTION OF 220 KV DC TRANSMISSION LINE FROM EXISTING 220/132KV GRID SUB-STATION AT KESINGA, KALAHANDI DISTRICT TO PROPOSED 220/132/33 KV GRID SUB-STATION AT SIRTTIGURA UNDER K. NUAGAON TAHASIL IN KANDHAMAL DISTRICT, ODISHA.

BY

ODISHA POWER TRANSMISSION CORPORATION LIMITED BERHAMPUR

ELEMENTS OF THE SCHEME FOR COMPENSATORY AFFORESTATION

CHAPTER	PARTICULARS	PAGE NUMBER
1	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	03-04
П	DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION	05-05
Ш	DELINEATION OF PROPOSED AREA ON SUITABLE MAP	06-06
rv	AGENCY RESPONSIBLE FOR COMPENSATORY AFFORESTATION	06-06
V	DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION	07-08
	NURSERY COST NORM FOR RAISING OF 1000 (18 MONTHS) SEEDLINGS WAGE RATE @ 311 PERDAY	09-10
	BASE COST NORMS FOR COMPENSATORY AFFORESTATION THROUGH AIDED NATURAL REGENERATION (ANR) @ 500 SEEDLINGS / HA. WAGE RATE RS. 311/- PER MANDAY & MATRIX FOR ANR-500 PLANTS / HA	11-17
VI	AFFORESTATION WITH STABILIZATION OF SOIL MOISTURE CONSERVATION (SMC) & MATRIX FOR (SMC)	18-19
	FENCING MODEL-F-II FENCING FOR COMPENSATORY PLANTATION RAISED OUTSIDE THE FOREST AREAS USING ANGLE IRON & CHAIN LINK WIRE MESH (250 RMT / HA) & MATRIX FOR FENCING MODEL -F-II (IRON ANGLE WITH CHAINLINK WIRE MESH)	20-21
	WATERING MODEL - W-II WATERING PROVISION TO CA PLANTATION & MATRIX FOR WATERING MODEL -W-II (DIESEL PUMPSET FITTED WITH BOREWELL) PER IIA	22-23
	TOTAL COST OF PROJECT	24-24
VII	DETAILS OF PROPOSED MONITORING MECHANISM	25-25

CHAPTER-1

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

"Odisha Power Transmission Corporation Limited" (A Government of Odisha undertaking), having it's registered office at Janapath, Bhubaneswar, Dist: Khurda, Odisha is primarily entrusted to construct, successful operation and maintenance of EHT Transmission lines and Grid sub-stations with a mission to facilitate effective transfer of power, to improve voltage profile, to minimize interruption power supply, to enhance security/ reliability of power system, for strengthening of power system and to avail alternate power supply within and across the districts through villages of the Odisha state.

Odisha predominantly being an agricultural state and one of rich in mineral resources, expansion in the lift irrigation system and of different industries became essential. The power system of the state has some low voltage pockets in certain remote zones fed as tail end, causing high system loss. Therefore, it is proposed to improve in the system by way of installation new sub-stations in the transmission sector of the state.

The proposed Baliguda 220/33KV grid sub-station can be connected to the system by drawing 102.037 KM of 220KV DC line from existing 220/132 KV Grid Sub-Station at Kesinga for system strengthening purpose. It is proposed to install 2X40MVA, 220/33KV transformers at under construction 220/132/33 KV Grid Sub-Station at Sirtiguda under K.NuagaonTahasil, Kandhamal district.

In order to eradicate low voltage problem in the southern parts of the State, it is felt essential to go for installation of a new 2X40 MVA, 220/33 KV Grid sub-station at Baliguda. This will help in minimizing power interruption, improvement in voltage profile and to meet the future load demand in this area besides minimizing losses in the existing system.

Baliguda is one of the strategic towns in the district of Kandhamal. It is situated at the most backward area. The area adjoining to this strategic town is one of the maoist affected area. The habitants are mostly of Adivasi communities & especially the Kondhs. Yet there is no electricity access for a majority of its rural & tribal habitats. The surrounding area is extremely fertile and rich in agricultural products like paddy, oilseeds and vegetables. This will also improve the Socio-Economic condition of the in habitants. The consumers under rural electrification schemes like Rajiv Gandhi GrameenVidyut, Yojna and Biju Gram Jyoti are likely to be benefited by the proposed project. The implementation of the project is required for eradication of low voltage profile.

Presently Baliguda area is drawing power at 33 KV from 132/33 KV Grid S/S at Phulbani on 33 KV Nuagaon feeder with a load of around 10MW. The present length of 33 KV line is around 80 KMs from existing 132/33 KV Grid S/S at Phulbani.

The land identified for Grid Sub-Station is around 6 KMs from NuagaonChhak which is around 25 KMs from Baliguda town. The location of the Grid S/S is so placed that this Grid S/S will be the central located between Baliguda, Daringbari and Nuagaon. Commissioning of proposed 220/33 KV Grid Sub-Station at Baliguda will ensure steady and reliable power supply and eradicate low voltage problem not only at Baliguda but also at Nuagaon, Daringbari, Tumudibandha and Phiringia area. After construction of the Grid S/S the loading area of Udayagiri and Raikia will also be considerably reduced, which is around 30 kms from Baliguda town. The present peak loading in Phulbani Grid S/S is around 29MW. The proposed Grid S/S at Baliguda can reduce the loading at Phulbani by 10MW.

In the present proposal, for construction of 220KV DC transmission line from existing 220/132 KV Grid Sub-Station at Kesinga (Latitude: 20°10′28.29″N & Longitude: 83°13′08.72″E) under KesingaTahasil, Kalahandi District along with its associated transmission line of 102.037 KM (approx) to 220/132/33 KV Grid Sub-Station at Sirttiguda in K. NungaonTahasil (Latitude: 20°05′04.57″N & Longitude: 84°00′10.37″E) Kandhamal District. In order to achieve stability and to cater qualitative power in the transmission system of the State as well as to meet the increasing load demand. This line shall passing through Kesinga, Madanpur Rampur and NarlaTahasils of Kalahandi District &Tumudibandha, Baliguda&NungaonTahasils of Kandhamal District.

The main thrust and emphasis is laid on the following:

- 1. Improvement of voltage profile.
- To minimize interruption of power supply to consumers:
- Enhance security / reliability of power system.
- 4. Strengthening of transmission system.
- 5. Availability of alternate power supply.

This system shall also fulfill the requirement of additional power to these areas. Therefore, the power transmitted through this line will boost the small scale industries and agricultural growth of the area.

Therefore, this proposal is being submitted for diversion of forest land of 136.966 Ha (94.013 Ha in Baliguda Forest Division and 42.953 Ha in Kalahandi North Forest Division) for Construction of 220 KV DC Transmission line from existing 220/132KV Grid Sub-station at Kesinga, Kalahandi District to proposed 220/132/33 KV Grid Sub-station at Sirttigura under K. Nuagaon Tahasil in Kandhamal District.

Degraded Forest land over 25.00 Ha has been identified and allotted in Pattola(Sinang RF) under BhawanipatnaForest Range of Kalahandi North Forest Division, in favour of M/s Odisha Power Transmission Corporation Limited, Berhampur, vide letter No. 6413/4F-Misc.-2022 dated. 13th October 2022 the Divisional Forest Officer, Kalahandi North Division for raising Compensatory Afforestation. The Degraded Forest Land over 25.00 Ha has been considered for plantation under ANR model @500 seedlings / Ha has been prepared to this effect.

The present scheme aims at preparation of a site-specific Compensatory Afforestation scheme over 25.00 Ha of degraded forest land identified in Pattola(Sinang RF)under Bhawanipatna Forest Range of Kalahandi North Forest Divisional the prevailing per MD onetime cost norm approved by PCCF & HOFF, Odisha vide his Office Order No. 1109/9F-Misc-387/2021, dated 8th November 2021 with a maintenance period of ten years for raising Compensatory Afforestation ANR with gap plantation.

CHAPTER- II

DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION

IDENTIFICATION OF DEGRADED FOREST LAND

II(1)- Details of identified Degraded Forest land-

The identified Degraded Forest land for Compensatory Afforestation is situated in Pattola(Sinang RF)under Bhawanipatna Forest Range of Kalahandi North Forest Division and KalahandiDistrict. This Forest Block is allotted to Improvement working circle in the present Working Plan.

II(2)- Character of existing vegetation of the identified site for Compensatory Afforestation-

The prevailing forest growth has been categorized under forest type- open jungle mainly Sal in SOI Topo Sheet No. E44F1. The vegetation consists of Sal and its scattered associates like Piasal, Asana, Sisoo, Kuruma, Karada, Dhaura, Sidha, Harida, Bahada and Ainia.

II(3)- Working Plan prescription for the identified site for Compensatory Afforestation-

The prescribed objectives of management for the identified forest block is depicted hereunder-

- Regenerate of the degraded forest blocks including the areas once affected by shifting cultivation, by appropriate silvicultural inputs and protection measures with people's participation.
- Improvement of the micro-climate and micro-edaphic conditions though soil and moisture conservation measures.
- Encouragement of natural regeneration for increasing the biodiversity in forest crop.

II(4)- Suitability of the identified site for Compensatory Afforestation-

The identified site in Pattola(Sinang RF) is a degraded patch with existing vegetation of Sal and Sal associates. Gaps are sporadically spread over the forest block. The topography of the area is mainly undulating hilly having good depth of red boulder mixed soil conducive for plantation under ANR with Gap model @500 seedling per ha. The average maximum temperature is 40° to 45°C and minimum 5° to 10° C and annual rainfall varies from 1100 mm to 1800 mm. The maximum rainfall is received during the rainy season from July to September. The site has been demarcated with 4 feet RCC pillars with erection of durable signboard depicting Scheme, Year, User Agency, area etc. on it. Therefore, the CA scheme is envisaged to be executed with involvement of BaziapadaVSS.

CHAPTER-III

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

III(1)- DGPS COORDINATES AND GPS MAP OF THE COMPENSATORY AFFORESTATION SITE

The area has been demarcated through DGPS survey and DGPS survey data showing latitude and longitude of each point and their chainage with bearing is also enclosed in the map prepared thereon (Maps enclosed).

III(2) DECISION SUPPORT SYSTEM- ANALYSIS OF FOREST COVER MAP

The map of the proposed CA land was processed using DSS for analysis of Forest cover over the area. The result obtained are depicted in the Annexure-____.

Decision Support System of degraded forest land identified in PattolaSinang RF under Bhawanipatna Range

In Sq. Km

SI. No	Name of the Site	Area identified for Plantation (in Ha)	Non-Forest	Scrub
1	Pattola(Sinang RF)	25.00	0.15	0.10

CHAPTER- IV

AGENCY RESPONSIBLE FOR COMPENSATORY AFFORESTATION

IV(1)- AGENCY RESPONSIBLE FOR PLACEMENT OF FUNDS

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

IV(2)- AGENCY RESPONSIBLE FOR EXECUTION OF COMPENSATORY AFFORESTATION

The Territorial Wing of the Forest Department i.e. Divisional Forest Officer. Kalahandi NorthForest Division will be assigned with the task for execution of the Compensatory Afforestation.

CHAPTER- V

DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION

A. PLANTING PLAN

Planting Plan reflects the site 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. Sizyziumcumini(Jamu)
- 2. Adina cardifolia(Kuruma)
- 3. Anogeissuslatifolia(Dhaura)
- 4. Albizialebbeck(Siris)
- Dalbergiasissoo(Sissoo)
- 6. Azadirrachtaindica(Neem)
- 7. Gmelinaarborea (Gambar)
- Terminaliabelerica(Bahada)
- 9. Terminaliachebulo(Harida)
- 10. Pongamiapinnata (Karanja)
- 11. Emblicaofficinalis (Ainla)

B.PRE-PLANTING OPERATION

B(I)-RAISING OF PLANTATION STOCK- NURSERY-

Nursery will be raised @550 18 months old seedlings per ha including seedlings for 10% causality replacement.

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

The planting area has been surveyed and demarcated with four feet height RCC pillars at inter visible distance (as per the direction of the Forest Range Officer, Bhawanipatna Range) with DGPS coordinates, Pillar No. and distance between pillars inscribed in it. A DGPS map in the scale of 1:3960 has been prepared along with DGPS coordinates, pillar to pillar distance and pillar numbers reflected in the map. A sign board has been erected at a conspicuous location with name of the site, scheme, area etc. depicted on it.

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

The clearing of the 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 45cm X45cm X45 cm, will be dug 4500 per ha in the available gaps preferably 2 months before or at least a month before planting of seedlings.

C. PLANTING OPERATION

Planting of 18 months old seedlings will be taken up in the month of July. 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 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 heal 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 stumps is complete or after the seedlings 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 artificial fertilizers, N.P.K. and Urea will be applied in two split doses one in August and the other in September.

D(4)-SOIL MOISTURE CONSERVATION MEASURES

Soil Moisture Conservation measure structures to be carried like Staggered Trench, Percolation Pit, Contour trench, Graded earthen bund, LBCD, Wire mesh LBCD, Sub-surface Dyke and Water Harvesting Structure (WHS) as per the slope & site requirement on LS.

D(5)-PROTECTION AGAINST FIRE AND BIOTIC INTERFERENCE

It is proposed to protect the CA plantation from grazing by domestic animals using Bamboo Twings &Throns. The total length of such fencing comes to 5.073Km (5073M). Fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved norm for protecting the plantation from grazing with involvement of Baziapada VSS.

Nursery Cost Norm for raising of 1000 (18 months) seedlings

Wage rate @ 311 per Manday

ı	Nursery Cost Norse 6	Wage ra	for 200 72						
Comp. Links	St. No. Demod work	Prefee Person	able tot 1	Neit .	Enit	111111111111111111111111111111111111111	Labora	r Materi	al Total
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	Cost be Polythese (9" X 5"X 200G) Min un./Eg - XXI Egi/Es.2004 per Eg. (including CXY)	No. 0	kt.	íz.	200	3,21	10	100	607.5
ŀ	Procurement of new & credy Polypes Mustare (Seel, Soral & COM in ratio [2:3:1)					1	1	1	1
	(i) Sail	Non-D	st,		-	-		-	-
ŀ	2 (30 Sand	1			10	22	- 0	220	220
	This course is a second	Non- De	E 0	1	16	11	10	176	776
	(iii) GM/ Versia compant/ Bar Fertillors etc.	New Dr	× 0	1	25	11		275	275
L	(iv) inneticate/ the Perticate	Nes-De	E 16	. 1	150	2	-	- 55	275
3	Proporation of Soil Meeture includes profestruction, Straining & mixing the ingredients in proper catio. (2:1:1)	Nov- Do	+		211		622	300	300 622
4	- Armenia - Company	-			177		110-2		1002
5	Collection of Servi, Grading & Treatment	Nov-De	-	-	311	3	933	0	W11
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,	proveding sheds.	Jan	MD	1	311	2	622	300	1122
t	Watering (Jan to Murch)	Jan-Mar	MD	1		-	3.50	3.00	****
ï	Maintenance of Nursery including feecing	War Stores	200	1	111	.11	2799	0	2799
4		J==-Mar	MO	3	11	4	1244	500	1744
	Contingencies (Water can, Buckets, Nursery short, Electricity charges/ Blocal charges/ Maintenance of pump set/ Maintenance of Buckery, etc.)				a	0	0	460.5	460.5
A	TOTAL		-	+	-	2.5		-	
1	nd Financial Year (Shifting of Seedlings to larger Watering for 3 months (April to bond)	Palethone	Street or or	-		245	6997,5	3124.1	0121.6
ħ	Watering for 3 mouths (April to June)	- orleanisme	*** 10.0	went	reat o	oilling &	& better gr	with J April	5-March
Jt	Cost of Inserticiden/ Bio-Province	desir brase	MD	31		9	2799	ne i	2799
14	Appelliance of income, i.e., i	fay fune	Ng/11	U	-	0	0	400.0	400
		tay lune	MD	31	1		311	0	311
-	Cost of Puly pot (12" X 10" X 300 gauge) 6G nm. 5 17 Kg & Rs. 200 per Kg. (mileding GS7)	fay (une	Kg.	20	1	7	0		FE38

Sarvory God Natorial annual (1900) 19 demonstratings

	y	capaciate in	211	20 to 36	mier.			
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	Promote bear of time & create in open e Modales (New Section CRM reviews (2.2.1))							
	DERM	Am/Mer.	the	38	ille	10	1000	jun
Ġ.	[0] Nine	Apr/May	ČE	26	10	ii.	1000	988
	pid CDM/Vernicompost/ No Petilizes etc.	Apr./Mag	CH	28	58	. 0	1250	1250
	DrT Insectionical Non-Personality	Apr./Skay	Max	131		· G	450	450
A	Preparation of patting mature including pulsermation and straining	Oct Arm	3431	315	×	Tribin	.0	1864
2	Filling of Prlythese Bags including moutine and setting	Ott-Nov	NO	311	leis) anns	ii ii	1289
ij	Watering	Do-Marsh	Mix	311	19	5900	8	590
9	Sorting, Westing, grading and resetting over now year period	April-March	\$00	311	15	4465	0	4665
0	Connegences (Water cas, Buckets, Nursery shed, Electricity charges/ Diorol charges/ Maintenance of pump and/ Mannennece of Bockety, Mc.)						400	400
1	TOTAL				RS	26435	7936	3427
	C. 3rd Financial Year (Maintenance	upto Pl	anting)	April 3	ine.		
î.	Winning for 3 menths (April to June)	April Jane	500	311	1.1	3733	ti ti	1732
	Wording Shifting and grading	Aprd-June	MIR	30.2	1.7	1244	0	-1244
1	Cost of Issuettodes/ Bio-Pesticide						400	400
1	Application of innecticides/ Bin-Pentiside		963	311	1	311	0	211
	Cantingencies						230	430
-	TOTAL	AHSTRACI			17	5207	638	5917
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	2sof Financial Year (12 Months)				-	8997.5 26433	3936	10122
- 4	and Financial Year (3 Months)					5297	630	3817
					Total	30719.5	11900.1	5021
rst,	per 19 months old Scotlings= 50310/1000 = R	s 10.31/-						
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			1111		1	None	gy	

APCLE (Formst Diffusion & NO. 15 Art)

CHAPTER- VI

-	REGENERATION (ANR) @ 500	te Rs.311/- P	ER MAND	AV	is our security	6/
SL (u.	Item of Work	Preferable Period of Execution	No of Mandays	Labour cost (In Rs.)	Material cost (In Rs.)	Total cost (In Rs.)
1	2	3	4	5	6	7
•	0th Year (Advar	ice Work) Pr	c-Planting	Operation		
1.	Survey, Demarcation and Pillar Posting	Nov-Dec	2	622.00	0.00	622.00
Ž.,	Preparation of Treatment Map (Digital Map)	Nov-Dec	1	311.00	100.00	411.00
3.	Site preparation	Nov-Dec	2	622.00	0.00	622.00
4.	Silvicultural operation including clearance of weed, cutting of climber, High stump cutting, singling of shoots & removal of cut out after drying from the field to blank space	Feb-Mar	15	4665.00	0,00	4665.00
5.	Alignment and stacking for digging of pits	Feb-Mar	1	31L00	0.00	311.00
6	Digging of pits (45 cm x 45 cm x 45 cm) in hard and gravelly soil	Feb-Mar	20	6220.00	0.00	6220.00
	Sub Total =		41	12751.00	100.00	12851.00
	ls	t Year/Plant	ing Year	-141		
1.	Refilling of pits by altering the dugout soil of the pits, application of organic compounds /CDM/FYM & Mixing the same perfectly.	Jun-Jul	4	1244.00	2500.00	3744,00
2.	Transportation of 18 months old polythene bag seedlings in hired truck/tractor from the Permanent/Mega nursery to planting site including loading & unloading. (Average lead of 10 Rkm) & stacking the seedling (# Rs.6/- per Seedling, (550 nos.)	Jul-Aug	0	0	3300,00	3300.00
3.	Watering polythene bag seedlings at stacking site of plantation	Jul-Aug	1	311.00	0	311.00
4.	Conveyance of polythene bag seedlings on head load from the stacking site to individual dugout pits within the planting site, applying insecticide, fertilizers & planting after scooping the soil with other applied materials & pressing the soil perfectly around the planted seedlings.	Jul-Aug	11	3421.00	0	3421.00
5.	Cost of Fertilizer & Insecticide a. NPK/Bio-fertilizer @ 50 gms/plant as basal dose = 25kg @ Rs.30/- per kg = Rs.750.00 b. Urea/Vermi compost /Mo Khata/any other fertilizer @ Rs.375.00 c. Insecticide/Bio-peseticide @ 5 gms/plant = 2.5kg @ Rs.150/-	Jul-Aug	0	O	1500.00	1500.00
6.	per kg = Rs.375.00 Casualty Replacement(a) 10% (50 nos.)	Jul-Aug	1.5	466.50	0	466.50
7.		Aug-Sept	5	1555.00	0	1555.00

į,	2 rd Weeding, Soil working (1mt. diameter around the plants)	Oct-Nov	8	2488,00	0	2488.00
)	&Manuring Fire line Tracing & inspection path	Feb-Mar	3	933.00	0	933.00
	Watch & ward including watering as	Aug-Mar	8	2488.00	0	2488.00
0.	per requirement	Arrigi-Artin		- DR alline	- 176	- A - ACCOUNT
	Sub Total =		41.5	12906.50	7300.00	20206.50
		Year Mainte	nance			
i.	Transportation of 50 seedlings from Numery to plantation site including loading, unloading & conveyance by	Jul	0	0.00	300,00	300.00
	Tractor @ Rs.6/- per scodling		1.5	100.00	0.00	466.50
2.	Casualty replacement	Jul	1.5	466.50	0.00	400.00
3.	Cost of Fertilizer & Insecticide a. Cost of Insecticide/Bio- pesticide (Themet/Forate) it 5 gms/plant = 0.25 kg @ Rs. 150/- per kg = Rs. 37.50/- b. Urea/NPK/Bio- fertilizer/Vermicompost/Mo Khata/any other fertilizer @ Rs. 1400/-	Jul	0	0.00	1437.50	1437,50
4.	Weeding (Complete weeding),	Sep-Oct	8	2488.00	0.00	2488.00
5.	Use Time tending (2m Wide fire line	Feb-Mar	3	933,00	0.00	933.00
6	Watch & Ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		24.5	7619.50	1737.50	9357.00
		Year Mainte	enance			
1	Cost of Fertilizer (Urea/NPK/Bio- fertilizer/Vermi compost/Mo Khata/any other fertilizer = Rs.1400/-	Sep-Oct	n	0.00	1400.00	1400.00
1	Weeding (Complete weeding),	Aug-Sep	.8	2488.00	0.00	2488.00
1	Fire line tracine Om wide fire line &	Feb-Mar	3	933,00	0.00	933.00
4,	Watch & ward including watering as	Apr-Mar	12	3732.00	0.00	3732.00
-	Sub Total =		23	7153.00	1400.00	8553.00
		h Year Maint	enunce			
1.	Fire line tracing (2m, wide fire line over 400 m length) & inspection path	Feb-Mar	3.	933.00	0.00	933.00
2	Watch & word including watering as	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		15	4665,00	0.00	4665.00
		h Year Main	tenance			
1,	Fire line tracing (2m, wide fire line over 400 m length) & inspection path	Feb-Mar	3	933.00	0.00	933.00
	Watch & ward including watering as	Apr-Mar	12	3732.00	0,00	3732.00
2	Sub Total =		15	4665.00	0.00	4665.00
2		A Manu Male	tenance			
2	61	m rear main				2000
2	Fire line tracing (2m. wide fire line	Feb-Mar	3	933.00	0.00	933.00
	Fire line tracing (2m. wide fire line over 400 m length) & inspection path			933.00 3732.00	0.00	933,00 3732.0 4665.0

	71	h Year Mainte	nance			
I.	Fire line tracing (2m. wide fire line over 400 m length) & inspection path	Feb-Mar	3	933.00	0.00	933.00
2.	Watch & ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		15	4665.00	0.00	4665.00
	81	h Year Mainte	nance			
1.	Fire line tracing (2m. wide fire line over 400 m length) & inspection path	Feb-Mar	3	933.00	0.00	933.00
2.	Watch & ward including watering as per requirement	Apr-Mar	12	3732,00	0.00	3732.00
	Sub Total ≃		15	4665.00	0.00	4665.00
1.	Fire line tracing (2m. wide fire line	h Year Mainte Feb-Mar	mance 3	933.00	0.00	933.00
2.	over 400 m length) & inspection path Watch & ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		15	4665.00	0.00	4665.00
	10	h Year Maint	enance			
1.	Fire line tracing (2m. wide fire line over 400 m length) & inspection path	Feb-Mar	3	933.00	0.00	933.00
2.	Watch & ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		15	4665.00	0.00	4665.00

				ABSTRA	CT		
SI. No.	Item of Work	Preferable Period of Execution	No. of Mandays	Labour Cost (In Rs.)	Material Cost In Rs.)		Total Cost (In Rs.)
SL No.	Year	No. of person days	Labour cost Rs. 311/- per dayRs.	Material cost (In Rs.)	Monitoring, Evaluation, Learning, Documentation & other Contingency 5% of (4+5)	Cost of Seedlings @ 50.31 per seedlings	Total Cost (In Rs.)
1	2	3	4	5	6	7	8
1.	0th Year	41	12751.00	100.00	549.00	0.00	13400.00
2.	1st Year	41.5	12906.50	7300.00	993.50	27671.00	48871.00
3,	2nd Year	24.5	7619.50	1737.50	443.00	2516.00	12316.00
4.	3rd Year	23	7153.00	1400.00	347.00	0.00	8900.00
5;	4th Year	15	4665.00	0.00	135.00	0.00	4800.00
6.	5th Year	15	4665.00	0.00	135.00	0.00	4800.00
7.	6th Year	15	4665.00	0.00	135.00	0,00	4800.00
8.	7th Year	15	4665.00	0.00	135.00	0.00	4800.00
9.	8th Year	15	4665.00	0.00	135.00	0.00	4800.00
10.	9th Year	15	4665.00	0.00	135.00	0.00	4800.00
11.	10th Year	15	4665.00	0.00	135.00	0.00	4800.00
	Total =	235.0	73085.00	10537.50	3277.50	30187.00	117087.00

Base Cost Norms for Compensatory Afforestation through Aided Natural Regeneration (ANR) © 500 Seedlings / Ha.

WAGE RATE Rs. 311/- PER MANDAY

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Fencing Model F-1

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Matrix for Model 4- I Fending (Bamboo Twig)

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Watering Model - W-II

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TOTAL COST OF CA SCHEME (AS PER BASE COST NORM)

No.	Item of Work	In Rupees
1	Base Norm (Year 2023-2024)	1, 50,051.00
2	Soil Moisture Conservation (SMC)(2023-2024)	39.284.00
3	Fencing Bumboo Twings&Throns (2023-2024)	1,10,214.00
4	Watering Diesel Pump set fitted with bore well (2023-2024)	5, 27,321.00
5	Sub-Total	8.26, 870.00
6	Total Plantation cost over 25.00 Ha (Rs. 8,26, 870.00 X 25.00 Ha)	2, 06, 71, 750.00 OR 2, 06, 71, 800.00

(Rupees Two crore Six lakh Seventy one thousand Eight hundred) only

A. PROVISION OF FUNDS AND FUND UTILIZATION

Rs. 2, 06, 71, 800.00/-(Two crore Six lakh Seventy one thousand Eight hundred) only shall be deposited by the User Agency M/s OPTCL. Berhampur on approval of the scheme to the Ad-hoe CAMPA Account and the funds will be utilized for raising of Compensatory Afforestation by the Divisional Forest Officer, Kalahandi North Forest Division on allotment by the Principal Chief Conservator of Forests, Odisha, Bhubaneswar.

Disisional Forest Officer, Kulphandi North Forest Division

CHAPTER- VII

DETAILS OF PROPOSED MONITORING MECHANISM

Compensatory Afforestation will be taken up in the identified site by the Range Officer, Bhawanipatna Range of Kalahandi North Division. The Range Forest Officer, Bhawanipatna 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, Kalahandi NorthForest Division. DGPS co-ordinates along with other required informations of Compensatory Afforestation will be uploaded in the e-Greenwatch Portal of NIC, MoEF, Govt. of India for the purpose of online monitoring. Annual progress of plantation involving growth of planted seedlings, survival percentage etc. will be monitored and recorded in the plantation journal by the field staffs of Bhawanipatnaand reported to the Divisional Forest Officer for necessary action. The same thing will be reported to the Regional Chief Conservator of Forests, Bhawanipatna Circle and Chief Conservator of Forests (PP&A), O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar and necessary corrective measures will be followed if required so.

Divisional Forest Officer, Kalahahah North Forest Division

CERTIFICATE ON DSS ANALYSIS FOR CA / ACA / PCA

proposed 220/132/33 KV Grid Sub Station Baliguda and subsequent ground truthing have been degraded forest land in Sinang RF of Kalahandi North Division in lieu of diversion of forest land done. The Outcome is as mentioned below: for 220 KV DC Transmission line from existing 220/132 KV Grid Sub Station at Kesinga to This is to certify that DSS Analysis of Land identified for CA/ ACA/ PCA over 25 ha.of

3	_	· \$ 5	
Bhawani patna	2	Name of the Range	
Sinang RF	Ga	REFERENCES (REFERENCES) enue Forest)	
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0	12	Open	2
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SCHEME FOR COMPENSATORY AFFORESTATION OVER AN AREA OF 25.00 HA DEGRADED FOREST LAND IDENTIFIED IN PODAMUNDI (BRAHAMHANI RF) UNDER BHAWANIPATNA FOREST RANGE OF KALAHANDI NORTH FOREST DIVISION AGAINST

PROPOSED DIVERSION OF 136.966 HA OF FOREST LAND FOR CONSTRUCTION OF CONSTRUCTION OF 220 KV DC TRANSMISSION LINE FROM EXISTING 220/132KV GRID SUB-STATION AT KESINGA, KALAHANDI DISTRICT TO PROPOSED 220/132/33 KV GRID SUB-STATION AT SIRTTIGURA UNDER K. NUAGAON TAHASIL IN KANDHAMAL DISTRICT, ODISHA.

BY

ODISHA POWER TRANSMISSION
CORPORATION LIMITED
BERHAMPUR

ELEMENTS OF THE SCHEME FOR COMPENSATORY AFFORESTATION

CHAPTER	PARTICULARS	PAGE NUMBER
1	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	03-04
п	DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION	05-05
Ш	DELINEATION OF PROPOSED AREA ON SUITABLE MAP	06-06
IV	AGENCY RESPONSIBLE FOR COMPENSATORY AFFORESTATION	06-06
V	DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION	07-08
	NURSERY COST NORM FOR RAISING OF 1000 (18 MONTHS) SEEDLINGS WAGE RATE @ 311 PERDAY	09-10
	BASE COST NORMS FOR COMPENSATORY AFFORESTATION THROUGH AIDED NATURAL REGENERATION (ANR) © 500 SEEDLINGS / HA. WAGE RATE RS. 311/- PER MANDAY & MATRIX FOR ANR-500 PLANTS / HA	11-17
VI	COST NORMS FOR CREATION OF COMPENSATORY AFFORESTATION WITH STABILIZATION OF SOIL MOISTURE CONSERVATION (SMC) & MATRIX FOR (SMC)	18-19
17.6.	FENCING MODEL-F-II FENCING FOR COMPENSATORY PLANTATION RAISED OUTSIDE THE FOREST AREAS USING ANGLE IRON & CHAIN LINK WIRE MESH (250 RMT / HA) & MATRIX FOR FENCING MODEL -F-II (IRON ANGLE WITH CHAINLINK WIRE MESH)	20-21
	WATERING MODEL - W-II WATERING PROVISION TO CA PLANTATION & MATRIX FOR WATERING MODEL -W-II (DIESEL PUMPSET FITTED WITH BOREWELL) PER IIA	22-23
	TOTAL COST OF PROJECT	24-24
VII	DETAILS OF PROPOSED MONITORING MECHANISM	25-25

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

"Odisha Power Transmission Corporation Limited" (A Government of Odisha undertaking), having it's registered office at Janapath, Bhubaneswar, Dist: Khurda, Odisha is primarily entrusted to construct, successful operation and maintenance of EHT Transmission lines and Grid sub-stations with a mission to facilitate effective transfer of power, to improve voltage profile, to minimize interruption power supply, to enhance security/ reliability of power system, for strengthening of power system and to avail alternate power supply within and across the districts through villages of the Odisha state.

Odisha predominantly being an agricultural state and one of rich in mineral resources, expansion in the lift irrigation system and of different industries became essential. The power system of the state has some low voltage pockets in certain remote zones fed as tail end, causing high system loss. Therefore, it is proposed to improve in the system by way of installation new sub-stations in the transmission sector of the state.

The proposed Baliguda 220/33KV grid sub-station can be connected to the system by drawing 102:037 KM of 220KV DC line from existing 220/132 KV Grid Sub-Station at Kesinga for system strengthening purpose. It is proposed to install 2X40MVA, 220/33KV transformers at under construction 220/132/33 KV Grid Sub-Station at Sirtiguda under K.NuagaonTahasil, Kandhamal district.

In order to eradicate low voltage problem in the southern parts of the State, it is felt essential to go for installation of a new 2X40 MVA, 220/33 KV Grid sub-station at Baliguda. This will help in minimizing power interruption, improvement in voltage profile and to meet the future load demand in this area besides minimizing losses in the existing system.

Baliguda is one of the strategic towns in the district of Kandhamal. It is situated at the most backward area. The area adjoining to this strategic town is one of the maoist affected area. The habitants are mostly of Adivasi communities & especially the Kondhs. Yet there is no electricity access for a majority of its rural & tribal habitats. The surrounding area is extremely fertile and rich in agricultural products like paddy, oilseeds and vegetables. This will also improve the Socio-Economic condition of the in habitants. The consumers under rural electrification schemes like Rajiv Gandhi GramcenVidyut, Yojna and Biju Gram Jyoti are likely to be benefited by the proposed project. The implementation of the project is required for eradication of low voltage profile.

Presently Baliguda area is drawing power at 33 KV from 132/33 KV Grid S/S at Phulbani on 33 KV Nuagaon feeder with a load of around 10MW. The present length of 33 KV line is around 80 KMs from existing 132/33 KV Grid S/S at Phulbani.

The land identified for Grid Sub-Station is around 6 KMs from NuagaonChhak which is around 25 KMs from Baliguda town. The location of the Grid S/S is so placed that this Grid S/S will be the central located between Baliguda, Daringbari and Nuagaon. Commissioning of proposed 220/33 KV Grid Sub-Station at Baliguda will ensure steady and reliable power supply and eradicate low voltage problem not only at Baliguda but also at Nuagaon, Daringbari, Tumudibandha and Phiringia area. After construction of the Grid S/S the loading area of Udayagiri and Raikia will also be considerably reduced, which is around 30 kms from Baliguda town. The present peak loading in Phulbani Grid S/S is around 29MW. The proposed Grid S/S at Baliguda can reduce the loading at Phulbani by 10MW.

In the present proposal, for construction of 220KV DC transmission line from existing 220/132 KV Grid Sub-Station at Kesinga (Latitude: 20°10′28.29°N & Longitude: 83°13′08.72°E) under KesingaTahasil, Kalahandi District along with its associated transmission line of 102.037 KM (approx) to 220/132/33 KV Grid Sub-Station at Sirttiguda in K. NuagaonTahasil (Latitude: 20°05′04.57°N & Longitude: 84°00′10.37°E) Kandhamal District in order to achieve stability and to cater qualitative power in the transmission system of the State as well as to meet the increasing load demand. This line shall passing through Kesinga, Madanpur Rampur and NarlaTahasils of Kalahandi District &Tumudibandha, Baliguda&NuagaonTahasils of Kandhamal District.

The main thrust and emphasis is laid on the following:

- 1. Improvement of voltage profile.
- 2. To minimize interruption of power supply to consumers.
- 3. Enhance security / reliability of power system,
- Strengthening of transmission system.
- 5. Availability of alternate power supply.

This system shall also fulfill the requirement of additional power to these areas. Therefore, the power transmitted through this line will boost the small scale industries and agricultural growth of the area.

Therefore, this proposal is being submitted for diversion of forest land of 136.966 Ha (94.013 Ha in Haliguda Forest Division and 42.953 Ha in Kalahandi North Forest Division) for Construction of 220 KV DC Transmission line from existing 220/132KV Grid Sub-station at Kesinga, Kalahandi District to proposed 220/132/33 KV Grid Sub-station at Sirttigura under K. Nuagaon l'ahasil in Kandhamal District.

Degraded Forest land over 25.00 Ha has been identified and allotted in Podamundi(Brahamhani RF) under BhawanipatnaForest Range of Kalahandi North Forest Division, in favour of M/s Odisha Power Transmission Corporation Limited, Berhampur, vide letter No. 6413/4F-Mise.-2022 dated. 13th October 2022 the Divisional Forest Officer, Kalahandi North Division for raising Compensatory Afforestation. The Degraded Forest Land over 25.00 Ha has been considered for plantation under ANR model @500 seedlings / Ha has been prepared to this effect.

The present scheme aims at preparation of a site-specific Compensatory Afforestation scheme over 25.00 Ha of degraded forest land identified in Podamundi(Brahamhani RF) under Bhawanipatna Forest Range of Kalahandi North Forest Divisionat the prevailing per MD onetime cost norm approved by PCCF & HOFF, Odisha vide his Office Order No. 1109/9F-Misc-387/2021, dated 8th November 2021 with a maintenance period of ten years for raising Compensatory Afforestation ANR with gap plantation.

CHAPTER- II

DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION

IDENTIFICATION OF DEGRADED FOREST LAND

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H(1)- Details of identified Degraded Forest land-

The identified Degraded Forest land for Compensatory Afforestation is situated in Podamundi(Brahamhani RF) under Bhawanipatna Forest Range of Kalahandi North Forest Division and KalahandiDistrict, This Forest Block is allotted to Improvement working circle in the present Working Plan.

II(2)- Character of existing vegetation of the identified site for Compensatory Afforestation-

The prevailing forest growth has been categorized under forest type- open jungle mainly Sal in SOI Topo Sheet No. F44X4. The vegetation consists of Sal and its scattered associates like Piasal, Asana, Sisoo, Kuruma, Karada, Dhaura, Sidha, Harida, Bahada and Ainla.

II(3)- Working Plan prescription for the identified site for Compensatory Afforestation-

The prescribed objectives of management for the identified forest block is depicted hereunder-

- Regenerate of the degraded forest blocks including the areas once affected by shifting cultivation, by appropriate silvicultural inputs and protection measures with people's participation.
- Improvement of the micro-climate and micro-edaphic conditions though soil and moisture conservation measures.
- 3. Encouragement of natural regeneration for increasing the biodiversity in forest crop.

II(4)- Suitability of the identified site for Compensatory Afforestation-

The identified site in Podamundi(Brahamhani RF) is a degraded patch with existing vegetation of Sal and Sal associates. Gaps are sporadically spread over the forest block. The topography of the area is mainly undulating hilly having good depth of red boulder mixed soil conducive for plantation under ANR with Gap model @500 seedling per ha. The average maximum temperature is 40° to 45°C and minimum 5° to 10°C and annual rainfall varies from 1100 mm to 1800 mm. The maximum rainfall is received during the rainy season from July to September. The site has been demarcated with 4 feet RCC pillars with erection of durable signboard depicting Scheme, Year, User Agency, area etc. on it. Therefore, the CA scheme is envisaged to be executed with involvement of BaziapadaVSS.

CHAPTER-III

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

III(1)- DGPS COORDINATES AND GPS MAP OF THE COMPENSATORY AFFORESTATION SITE

The area has been demarcated through DGPS survey and DGPS survey data showing latitude and longitude of each point and their chainage with bearing is also enclosed in the map prepared thereon (Maps enclosed).

III(2) DECISION SUPPORT SYSTEM- ANALYSIS OF FOREST COVER MAP

The map of the proposed CA land was processed using DSS for analysis of Forest cover over the area. The result obtained are depicted in the Annexure-

Decision Support System of degraded forest land identified in PodamundiBrahamhani RF under Bhawanipatna Range

			In Sq. 1	Km
SI. No	Name of the Site	Area identified for Plantation (in Ha)	Non-Forest	Scrub
1	Podamundi(Brahamhani RF)	25.00	0.21	0.05

CHAPTER- IV

AGENCY RESPONSIBLE FOR COMPENSATORY AFFORESTATION

IV(1)- AGENCY RESPONSIBLE FOR PLACEMENT OF FUNDS

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

IV(2)- AGENCY RESPONSIBLE FOR EXECUTION OF COMPENSATORY AFFORESTATION

The Territorial Wing of the Forest Department i.e. Divisional Forest Officet, Kalahandi NorthForest Division will be assigned with the task for execution of the Compensatory Afforestation.

CHAPTER- V

DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION

A. PLANTING PLAN

14

Planting Plan reflects the site 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. Sizyziumcumini(Jamu)
- 2. Adina cardifolio(Kuruma)
- 3. Anogeissuslatifolia(Dhaura)
- 4. Albizialebbeck(Siris)
- 5. Dalbergiasissoo(Sissoo)
- 6. Azadirrachtaindica(Neem)
- 7. Gmelinaarborea (Gambar)
- 8. Terminaliabelerica(Bahada)
- 9. Terminaliachebula(Harida)
- 10. Pongumiapinnata (Karanja)
- 11. Emblicaofficinalis (Ainla)

B.PRE-PLANTING OPERATION

B(I)-RAISING OF PLANTATION STOCK- NURSERY-

Nursery will be raised @550 18 months old seedlings per ha including seedlings for 10% causality replacement.

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

The planting area has been surveyed and demarcated with four feet height RCC pillars at inter visible distance (as per the direction of the Forest Range Officer, Bhawanipatna Range) with DGPS coordinates, Pillar No. and distance between pillars inscribed in it. A DGPS map in the scale of 1:3960 has been prepared along with DGPS coordinates, pillar to pillar distance and pillar numbers reflected in the map. A sign board has been erected at a conspicuous location with name of the site, scheme, area etc. depicted on it.

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

The clearing of the 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 45cm X45cm X45cm will be dug (a) 500 per ha in the available gaps preferably 2 months before or at least a month before planting of seedlings.

C. PLANTING OPERATION

Planting of 18 months old seedlings will be taken up in the month of July. 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 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 heal 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 stumps is complete or after the seedlings 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 artificial fertilizers, N.P.K. and Urea will be applied in two split doses one in August and the other in September.

D(4)-SOIL MOISTURE CONSERVATION MEASURES

Soil Moisture Conservation measure structures to be earried like Staggered Trench, Percolation Pit, Contour trench, Graded earthen bund, LBCD, Wire mesh LBCD, Sub-surface Dyke and Water Harvesting Structure (WHS) as per the slope & site requirement on LS.

D(5)-PROTECTION AGAINST FIRE AND BIOTIC INTERFERENCE

It is proposed to protect the CA plantation from grazing by domestic animals using Bamboo Twings &Throns. The total length of such fencing comes to 5.073Km (5073M). Fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved norm for protecting the plantation from grazing with involvement of Baziapada VSS.

Nursery Cost Norm for raising of 1000 (18 months) seedlings

Wage rate @ 311 per Manday

	1	Vage rate 6	311	per M.	unday			
XI. 50	Hemo of work	Preferable Period of Execution	Daire	Unit Cost	No./ Qts	Labour Cost	Material Cost	Total
	A. 1st Financial	Year (Soudh	ngs Cost	for 3 Ma	inthis			-
1	Cent for Polythese (F X S'R 2004) 802 mm/Kg. - 3.32 Kg64ta 2004/ per Kg. (including 657)	Non-Sec	Ke	JOR.	1.13	8	693	613
	Printarement of Year & crude Polypost Measure (Sed, Soud & CDM in ratio (2:5:1)							
	(T) Soff	Non-Der	Cit	10	22	0	220	220
2	(vi) Namé	Nor-Dec	0	26	11		176	126
	(III) CIIM/ Vermi compost/ Mu-Fertillores vic	Nov-Dec	m	25	-11	n	275	275
	(iv) Imenticide/ His-Pesticide	New-Dec	Xe.	150	2	1.	300	300
2	Preparation of Soil Mixture includes pulverisation, Straining & noising the ingendients to proper ratio (2.1.1)	Nov-Dec	МО	311	ı	622	0	672
4	Filling of polythene begs & Setting in the feet	Nov-Disc	MD.	311	1	933	6	933
5 1	Collection of Sout, Grading & Treatment	Dec	MD	311	2	622	0	622
- þ	Propuration of germinution bed & dibbling of seed.	See	MD	311	0.5	155.5	0	155.5
7 35	Pricking out the feedings from groundtakes leds & transplanting is the Poly bags and providing sheds	ţan .	MD	311	2	632	300	1372
1	Watering (Jan to March)	Jan-Mar	MO	311	4	2799	0	2799
1	National and Survey including leading	jan-Mar	MD	311	4	1244	500	1764
0 A	Contingencies (Water can, Buckets, Numery thed, Electricity charges/ Diseal charges/ Californance of pump set/ Maintenance of Numery, etc.)					0	460.5	460,5
-	TOTAL			-	22.5	6997.5	3124.1	10171.6
lai	f Financial Year (Shifting of Seedlings to larger	Polythene 1	ing to av				mwth) Aze	d March
W	Fatering for 3 months (April to June)	April-June	MD	311	9	2799	-	
G	art of Insecticides/ Rip Penticide	May June	Ke/Li	0	0	0	400.0	2799
	refunder of insecticides/ file-Personle	May-June	MD	311	T	311	0	400
0	not of Poly pot (12" X 10" X 300 gauge) 60 non- 17 fig & Re-200 per Kg. (metading GST)	May-June	Ke	208	17	0	3136	311

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_	Sorting, Weeting, grading and resulting sum are poor period	April March	MB	lii:	130	9985		860
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4	TOTAL			-	85	21415	7936	34271
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to	of Piparetel Star (5.2 Nomby)				- 1	4997.5	7124.1	39233
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			-	- 4	ACCO.	18719.S	630	5917
pr	er 18 months old Seedlings= 18710/2000 = 8s	58.31/-			and a	10/19/201	115401	50318
Th sive	e Cost Korm of vacious items can be charge end cost norm fixed for each Financial Year	d with the op	amovel	of the st	none 1	ed RCCFs	keeping to	
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CHAPTER- VI

	REGENERATION (ANR) @ 500		S/HECTA	RE (18 month	hs old seedlin	g)
SL No.	Item of Work	Preferable Period of Execution	No of Mandays	Labour cost (In Rs.)	Material cost (In Rs.)	Total cos (In Rs.)
1	2	3	4	5	6	7
-	0th Year (Adva	nce Work) Pi	e-Planting	Operation		
1_	Survey, Demarcation and Pillar Posting	Nov-Dec	2	622.00	0.00	622.00
2.	Preparation of Treatment Map (Digital Map)	Nov-Dec	1	311.00	100.00	411.00
3.	Site preparation	Nov-Dec	2	622.00	0.00	622.00
4.	Silvicultural operation including clearance of weed, cutting of climber, High stump cutting, singling of shoots & removal of cut out after drying from the field to blank space	Feb-Mar	15	4665.00	0.00	4665,00
5.	Alignment and stacking for digging of pits	Feb-Mar	Ī	311.00	0.00	311.00
6.	Digging of pits (45 cm x 45 cm x 45 cm) in hard and gravelly soil	Feb-Mar	20	6220.00	0.00	6220.00
_	Sub Total =		41	12751.00	100.00	12851.00
_		Year/Planti	ng Year			
I.	Refilling of pits by altering the diagout soil of the pits, application of organic compounds /CDM/FYM & Mixing the same perfectly.	Jun-Jul	4	1244.00	2500.00	3744.00
2.	Transportation of 18 months old polythene bag seedlings in hired truck/tractor from the Permanent/Mega nursery to planting site including loading & unloading. (Average lead of 10 Rkm) & stacking the seedling @ Rs.6/- per Seedling. (550 nos.)	Jul-Aug	0	0	3300.00	3300.00
3.	Watering polythene bag seedlings at stacking site of plantation	Jul-Aug	1	311.00	0	311.00
4.	Conveyance of polythene bag seedlings on head load from the stacking site to individual dugout pits within the planting site, applying insecticide, fertilizers & planting after scooping the soil with other applied materials & pressing the soil perfectly around the planted seedlings.	Jul-Aug	n	3421,00	0	3421.00
5.	Cost of Fertilizer & Insecticide a. NPK/Bio-fertilizer @ 50 gms/plant as basal dose = 25kg @ Rs.30/- per kg = Rs.750.00 b. Urea/Vermi compost /Mo Khata/any other fertilizer @ Rs.375.00 c. Insecticide/Bio-pescticide @ 5 gms/plant = 2.5kg @ Rs.150/- per kg = Rs.375.00	Jul-Aug	0	0	1500.00	1500.00
6.	Casualty Replacement@ 10% (50 nos.)	Jul-Aug	1.5	466.50	0	466.50
7.	1st weeding & Manuring	Aug-Sept	5	1555.00	0	1555.00

	2 nd Weeding, Soil working (Imt. diameter around the plants) & Manuring	Oct-Nov	g	2488.00	0	2488 00
9.	Fire line Tracing & inspection path	Feb-Mar	3	913.00	0	933.00
10.	Watch & ward including watering as per requirement	Aug-Mar	8	2488.00	:0	2488.00
	Sub Total =		41.5	12906.50	7300.00	20206.50
	21	d Year Main	tenance			
1.	Transportation of 50 seedlings from Nursery to plantation site including loading, unloading & conveyance by Tractor @ Rs.6/- per seedling	Jul	0	0.00	300,00	300.00
	Casualty replacement	Jul	1.5	466.50	0.00	466.50
3.	Cost of Fertilizer & Insecticide a. Cost of Insecticide/Bio- pesticide (Themet/Forate) @ 5 gms/plant = 0.25 kg @ Rs. 150/- per kg = Rs. 37.50/- b. Urea/NPK/Bio- fertilizer/Vermicompost/Mo Khuta/any other fertilizer @ Rs.1400/-	Jul	0	0.00	1437.50	1437.50
4.	Weeding (Complete weeding), Manuring& Soil working, (1mt, diameter around the plants)	Sep-Oct	8	2488.00	0.00	2488.00
2	Fire line tracing (2m. wide fire line liver 400 m long) & inspection path	Feb-Mar	3	933.00	0.00	933.00
6	Watch & Ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		24.5	7619.50	1737.50	9357.00
_	3"	Year Mainte	nance			7001.00
1	Cost of Fertilizer (Urea/NPK/Bio- fertilizer/Vermi compost/Mo Khata/any other fertilizer =Rs.1400/-	Sep-Oct	0.	0.00	1400,00	1400.00
2 1	Weeding (Complete weeding), Manuring& Soil working, (1mt, fiameter around the plants)	Aug-Sep	8.	2488.00	0.00	2488.00
" i	Fire line tracing (2m, wide fire line & inspection path	Feb-Mar	3	933.00	0.00	933.00
	Watch & ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		23	7153.00	1400.00	8553.00
-		Year Mainte	nance			
0	ire line tracing (2m, wide fire line ver 400 m length) & inspection path	Feb-Mag	3	933.00	0.00	9,33,00
	Vatch & ward including watering as ser requirement	Apr-Mar	12	3732.00	0.00	3732.00
_	Sub Total =		15	4665,00	0.00	4665.00
T	5th	Year Mainte	пансе			
- 0	ire line tracing (2m. wide fire line ver 400 m length) & inspection path	Feb-Mar	3	933,00	0.00	933,00
	Vatch & ward including watering as or requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		15	4665.00	0.00	4665,00
1284		Year Mainte	nance	- CVI IS-C TO SECOND		- Marenina (Ma
0	ire line tracing (2m, wide fire line ver 400 m length) & inspection path	Feb-Mar	3	933.00	0.00	933.00
	Vatch & ward including watering as or requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		15	4665.00	0.00	4665.00

	70	Year Maints	пинсе			
1.	Fire line tracing (2m, wide fire line over 400 m length) & inspection path	Feb-Mar	3	933,00	0,00	933,00
2.	Watch & ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		15	4665.00	0.00	4665.00
	80	h Year Mainte	nance			
I.	Fire line tracing (2m, wide fire line over 400 m length) & inspection path	Feb-Mar	3	933.00	0.00	933.00
2.	Watch & ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		15	4665.00	0.00	4665.00
1.	Fire line tracing (2m. wide fire line	h Year Maint Feb-Mar	enance 3	933.00	0.00	933.00
2.	over 400 m length) & inspection path Watch & ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		15	4665.00	0.00	4665.00
	101	h Year Maint	enance			
1.	Fire line tracing (2m. wide fire line over 400 m length) & inspection path	Feb-Mar	3	933.00	0.00	933.00
2.	Watch & ward including watering as per requirement	Apr-Mar	12	3732.00	0.00	3732.00
	Sub Total =		15	4665.00	0.00	4665.00

				ABSTRA	CT		
SL No.	Item of Work	Preferable Period of Execution	No. of Mandays	Labour Cost (In Rs.)	Material Cost In Rs.)		Total Cost (In Rs.)
SL No.	Year	No. of person days	Labour cost Rs. 311/- per dayRs.	Material cost (In Rs.)	Monitoring, Evaluation, Learning, Documentation & other Contingency 5% of (4+5)	Cost of Seedlings @ 50.31 per seedlings	Total Cost (In Rs.)
1	2	3	4	5	6	7	8
10	0th Year	41	12751.00	100,00	549.00	0.00	13400.00
2.	1st Year	41.5	12906.50	7300.00	993.50	27671.00	48871.00
3.	2nd Year	24.5	7619.50	1737.50	443.00	2516.00	12316.00
4.	3rd Year	23	7153.00	1400,00	347.00	0.00	8900.00
5.	4th Year	15	4665.00	0.00	135.00	0.00	4800.00
6.	5th Year	15	4665.00	0.00	135.00	0.00	4800.00
7.	6th Year	15	4665.00	0.00	135.00	0.00	4800.00
8.	7th Year	15	4665.00	0.00	135.00	0.00	4800.00
9,	8th Year	15	4665.00	0.00	135.00	0.00	4800.00
10.	9th Year	15	4665.00	0.00	135,00	0.00	4800.00
11.	10th Year	15	4665.00	0.00	135.00	0.00	4800.00
	Total =	235.0	73085.00	10537.50	3277,50	30187.00	117087.00

Base Cost Norms for Compensatory Afforestation through Aided Natural Regeneration (ANR) @ 500 Seedlings / Ha. WAGE RATE Rs. 311/- PER MANDAY

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Matrix for ANR-500 Plants / Ha

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Matrix for Model-II A (ANIII-SOD Plants/ Ha)

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Fencing Model F-1

Fencing for Compensatory Plantation raised inside the Forest Areas using Bamboo Twings& Thorns

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TOTAL COST OF CA SCHEME (AS PER BASE COST NORM)

S. No.	Item of Work	In Rupees
T	Base Norm (Year 2023-2024)	In Rupees
1	Base Norm (Year 2023-2024)	1,50,051.00
2	Soil Moisture Conservation (SMC)(2023-2024)	39,284.00
3	Fencing Bamboo Twings&Throns (2023-2024)	1,10,214.00
4	Watering Diesel Pump set fitted with bore well (2023-2024)	5, 27,321.00
5	Sub-Total	8,26, \$70.00
6	Total Piantation cost over 25,00 Ha (Rs. 8,26, 870,00 X 25.00 Ha)	2, 06, 71, 750.00 OR 2, 06, 71, 800.00

(Rupees Two crore Six lakh Seventy one thousand Eight hundred) only

A. PROVISION OF FUNDS AND FUND UTILIZATION

Rs. 2, 06, 71, 800,00/-(Twocrore Six lakh Seventy one thousand Eight hundred) only shall be deposited by the User Agency M/s OPTCL, Berhampur on 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, Kalahandi NorthForest Division on allotment by the Principal Chief Conservator of Forests, Odisha, Bhubaneswar.

Divisional Forest Officer, Kalahandi North Forest Division

CHAPTER- VII

DETAILS OF PROPOSED MONITORING MECHANISM

Compensatory Afforestation will be taken up in the identified site by the Range Officer, Bhawanipatna Range of Kalahandi North Division. The Range Forest Officer, Bhawanipatna 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, Kalahandi NorthForest Division. DGPS co-ordinates along with other required informations of Compensatory Afforestation will be uploaded in the e-Greenwatch Portal of NIC, MoEF, Govt. of India for the purpose of online monitoring. Annual progress of plantation involving growth of planted seedlings, survival percentage etc. will be monitored and recorded in the plantation journal by the field staffs of Bhawanipatnaand reported to the Divisional Forest Officer for necessary action. The same thing will be reported to the Regional Chief Conservator of Forests, Bhawanipatna Circle 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, Kalahandi NorthForest Division

CERTIFICATE ON DSS ANALYSIS FOR CA / ACA / PCA

degraded forest land in Brahmani RF of Kalahandi North Division in lieu of diversion of forest land done. The Outcome is as mentioned below: for 220 KV DC Transmission line from existing 220/132 KV Grid Sub Station at Kesinga to proposed 220/132/33 KV Grid Sub Station Baliguda and subsequent ground truthing have been This is to certify that DSS Analysis of Land identified for CA/ ACA/ PCA over 25 ha.of

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Divisional Forest Officer
Egithacidi North Division.

SCHEME FOR SITE SPECIFIC COMPENSATORY AFFORESTATION OF 100.00 HA OF DEGRADED FOREST IDENTIFIED IN HATILIMUNDA RESERVE FOREST OF BIRMAHARAJPUR RANGE UNDER SUBARNAPUR DISTRICT AGAINST THE DIVERSION PROPOSAL FOR CONSTRUCTION OF 220 KV DC TRANSMISSION LINE FROM EXISTING 220/132/33KV GSS, KESINGA TO PROPOSED 220/33KV GSS, BALIGUDA.

The "Odisha Power Transmission Corporation Limited" (A Government of Odisha undertaking), having it's registered office at Janapath, Bhubaneswar, Dist: Khurda, Odisha is primarily entrusted to construct, successful operation and maintenance of EHT Transmission lines and Grid sub-stations with a mission to facilitate effective transfer of power, to improve voltage profile, to minimize interruption power supply, to enhance security/ reliability of power system, for strengthening of power system and to avail alternate power supply within and across the districts through villages of the Odisha state.

The proposed Baliguda 220/33KV grid sub-station can be connected to the system by drawing 102.037 KM of 220KV DC line from existing 220/132 KV Grid Sub-Station at Kesinga for system strengthening purpose. It is proposed to install 2X40MVA, 220/33KV transformers at under construction 220/132/33 KV Grid Sub-Station at Sirtiguda under K.Nuagaon Tahasil, Kandhamal district.

The land identified for Grid Sub-Station is around 6 KMs from Nuagaon Chhak which is around 25 KMs from Baliguda town. The location of the Grid S/S is so placed that this Grid S/S will be the central located between Baliguda, Daringbari and Nuagaon. Commissioning of proposed 220/33 KV Grid Sub-Station at Baliguda will ensure steady and reliable power supply and eradicate low voltage problem not only at Baliguda but also at Nuagaon, Daringbari, Tumudibandha and Phiringia area. After construction of the Grid S/S the loading area of Udayagiri and Raikia will also be considerably reduced, which is around 30 kms from Baliguda town. The present peak loading in Phulbani Grid S/S is around 29MW. The proposed Grid S/S at Baliguda can reduce the loading at Phulbani by 10MW.

In the present proposal, for construction of 220KV DC transmission line from existing 220/132 KV Grid Sub-Station at Kesinga (Latitude: 20°10'28.29"N & Longitude: 83°13'08.72"E) under KesingaTahasil, Kalahandi District along with its associated transmission line of 102.037 KM (approx) to 220/132/33 KV Grid Sub-Station at Sirttiguda in K. NuagaonTahasil (Latitude: 20°05'04.57"N & Longitude: 84°00'10.37"E) Kandhamal District. In order to achieve stability and to cater qualitative power in the transmission system of the State as well as to meet the increasing load demand. This line shall passing through Kesinga, Madanpur Rampur and NarlaTahasils of Kalahandi District &Tumudibandha, Baliguda&NuagaonTahasils of Kandhamal District.

The main thrust and emphasis is laid on the following:

- 1. Improvement of voltage profile.
- To minimize interruption of power supply to consumers.
- 3. Enhance security / reliability of power system.
- 4. Strengthening of transmission system.
- Availability of alternate power supply.

This system shall also fulfill the requirement of additional power to these areas. Therefore, the power transmitted through this line will boost the small scale industries and agricultural growth of the area.

Therefore, this proposal is being submitted for diversion of forest land of 136.966 Ha [94.013 Ha in Baliguda Forest Division and 42.953 Ha in Kalahandi North Forest Division)for Construction of 220 KV DC Transmission line from existing 220/132KV Grid Sub-station at Kesinga, Kalahandi District to proposed 220/132/33 KV Grid Sub-station at Sirttigura under K. NuagaonTahasil in Kandhamal District.

As requested by the Deputy General Manager (EI) the balance Degraded Forest land over 100.00 Ha has been identified and allotted in Hatlimunda RF under Birmaharajpur Forest Range of Subarnapur Forest Division, in favour of M/s Odisha Power Transmission Corporation Limited, Berhampur, vide letter No. 3978/4F-Misc./166-2022, dated 01.11.2022 the Divisional Forest Officer, Subarnapur Forest Division for raising Compensatory Afforestation. The Degraded Forest Land over 100.00 Ha has been considered for plantation under ANR model @500 seedlings / Ha has been prepared to this effect.

The present scheme aims at preparation of a site-specific Compensatory Afforestation scheme over 100.00 Ha of degraded forest land identified in Hatlimunda RF under Birmaharajpur Forest Range of Subarnapur Forest Division at the prevailing per MD onetime cost norm approved by PCCF & HOFF, Odisha vide his Office Order No. 1109/9F-Misc-387/2021, dated 8th November 2021 with a maintenance period of ten years for raising Compensatory Afforestation ANR with gap plantation.

Stage-I Forest Clearance over 30.226 ha has been granted by MoEF & CC vide letter Dt. 15.05.2015. Condition No. (viii) of the Stage-I approval is given as under:

"The cost of compensatory afforestation at the prevailing wage rates as per compensatory afforestation scheme and the cost of survey, demarcation and erection of permanent pillars, if required on the CA land, shall be deposited in advance with the Forest Department by the user agency. The CA will be maintained for 10 years. The scheme may include afforestation of indigenous species with appropriate provision for anticipated cost increase for works scheduled for subsequent years".

Three patches of the total CA land allotted inside Hatilimunda RF is examined through Decision Support System and the analysis is given as below:

	933 T 334 T	DSS Results			
SI. No.	Name of the degraded forest	Degraded Forest Area in ha	Open Forest or above Canopy Area in ha	Total area ir ha	
1	Hatilimunda Reserve Forest	100		100	
	Total				

Considering the results of DSS survey and observations during field verification, the CA scheme over 100.0 ha is now prepared as per the one-time cost norm for Compensatory Afforestation issued vide Office Order No. 1109 dated 08.11.2021 of the PCCF, Odisha.

The detailed site-specific scheme is therefore prepared as follows:

Name of the degraded forest	Type of Plantation	Area in ha	No. of seedlings to be planted per ha	Total no. of seedlings required (Including Casualty Replacement- 10%)	
Hatilimunda	ANR@500 Plants per ha	100.0	500	55000	
Reserve	A ADDRESS FRANCISCO		500	55000	
Forest	Sub-total	100.0	AV 5	55000	
Gran	nd Total	100.0	500		

Further details and various components of the CA scheme is given below: -

1. Details of degraded forest land: Enclosed as Annexure-A

The DGPS survey maps showing the land details for the proposed Compensatory Afforestation are enclosed. The GPS co-ordinates of survey station of the Compensatory Afforestation area are furnished as Annexure-A.

2. Description of Area

- Whether the site selected for Compensatory Afforestation is a land bank or not: This identified degraded forest area is under the control of Forest Department and classified as 'Reserve Forest". It is not a land bank.
- II. If the CA site is other than the land bank, reasons be given: No land bank has been established yet for this purpose.
- III. In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: The identified CA area is coming under Hatilimunda Reserve Forest.
- IV. Soil type: Sandy soil/ Murrom.
- v. Topography:
- a) Hilly/Undulating/Plain: The Compensatory Afforestation site is undulating.
- b) Slope (Steep/Medium/Gentle): The site selected for Compensatory Afforestation has medium to gentle slope.
- VI. Whether the area is bearing any root stock of vegetation: The site selected for Compensatory Afforestation is one patch of area 100.0 ha. The patch is having various gaps for the plantation along with vegetation cover in the balance area. The patch is completely suitable for the ANR plantation at spacing of 2.5 m x 2.5 m. So, in total 55000 nos. of plants will be accommodated easily in the patch selected for the Compensatory Afforestation.

3. Plantation Model:

ANR plantation with 500 plants per hectare will be raised over 100.0 Ha and a detail of the plantation is furnished in the Annexure-B. The plantation scheme is prepared in corporating planting of 18 months old seedlings along with cost of transportation as per the stipulation and new one-time cost norm for Compensatory Afforestation issued vide Office Order No. 1109 dated 08.11.2021 of the PCCF, Odisha. Pit size has been taken as 45 Cm³ to accommodate bigger size 18 months old seedlings with (12°x 10°) poly bags properly inside the dugout pit.

4. Technical details of Compensatory Afforestation Scheme are as follows:

a) General Details:

Survey & Demarcation of boundary: The identified area has been surveyed by ORSAC, Odisha and the Head DGPS Survey, ORSAC, Odisha has submitted the DGPS Survey Map along with the C.D ROM after verifying the 100.0 Ha. of degraded forest land in connection with raising of Compensatory Afforestation. This work has already been done by the User Agency.

Planting and post-planting:

ANR plantation shall be taken up with 500 plants per hectares in all the gap areas within the gross area of 100 ha at spacing of 2.5 m x 2.5 m. alignment and pit marking should be done carefully in slopes so that the horizontal distance between plants in a row remains 2.5 mtrs and not the distance measured along the slope. All post planting measures like casualty replacement, soil working, manuring, fire protection etc. will be undertaken. The plantation area should be divided into 4-hectare plots. These plots should be demarcated in the field before digging of pits so that the demarcating line does not cross a plantation row. The 4.0 ha plots should be shown on map. Cost norm for the ANR plantation is furnished in Annexure-B.

While taking up plantation, the following vital points shall be taken up for consideration: -

- Pitting shall invariably be done during January-March i.e., before onset of monsoon. If possible the soil of upper portion and lower portion of pit should be placed separately in specific direction so that while planting the pits will be filled with top-soil first.
- Planting shall be done on the onset of monsoon to get full benefit of monsoon rain and planting should never be delayed.
- Basal dose of 50 grams of NPK and 5 grams of Chlorpyriphos dust per plant should be applied at the time of planting carefully by mixing with top-soil so that the roots of seedlings do not come in direct contact with fertilizer.
- In case of any mortality of planted seedlings, it should be replaced with good seedlings as soon as possible for better success rate.
- Complete weeding in proper time will be done. Strip weeding will not be permitted.
- Soil-working and application of 2nd dose fertilizer of 50 gms NPK per plant should be done in time.
- Since the area is provided with wire mesh fence, watch & ward will be easier and the watchers may be engaged in weeding in problematic areas along with watch & ward.
- b) Species: Although indigenous species are to be preferred in the plantation, considering adverse soil & moisture conditions we may go for few hardy exotic species wherever required so that the plants are able to survive. For success of plantation in the interior tribal areas, plantation of fruit & NTFP species plays a great role since economic species have a little value for local people. Considering the topography, soil and moisture availability of the plantation area, the following species will be planted:

Name of species	Common name	Remarks
Terminalia chebula	Harida	In rocky area with low soil depth
Terminalia bellirica	Bahada	In rocky area with low soil depth
Phyllanthus emblica	Amla	In lower areas i.e. water Logged Area.
Dalbergia sissoo	Sissoo	In lower areas with good soil depth
Diospyros macrophylla	Makad Kendu	In lower areas with good soil depth
Gardenia latifolia	Dam Kurdu	In lower areas with good soil depth
Schleichera oleosa	Kusum	In lower areas i.e. water Logged Area.
Madhuca indica	Mahul	In lower areas with good soil depth
Syzgium cumini	Jamun	In lower areas i.e. water Logged Area.
Cordia myxa	Bahal	In lower areas with good soil depth
Tamarindus indica	Tentuli	In rocky area with low soil depth
Terminalia tomentosa	Asan	In lower areas with good soil depth
Teriminalia arjuna	Arjuna	In lower areas i.e. water logged area.
Acacia catechu		In the degraded area
Pterocarpus marsupium	Bija	Only two years old seedling may be planted
Dendrocalamus strictus		In lower areas with good soil depth healthy seedling from rhizomes may be planted.

d) Soil and Moisture Conservation Works: -

Since most of the areas are hilly and undulating, SMC structures will be constructed as provided in cost norm. In order to achieve at least 15% cost towards SMC measures of total plantation cost, various sizes of the loose boulder check dams have been proposed. Estimate for loose boulder check dam has been provided in **Annexure-E**. The details of plantation and SMC measures proposed are given as under:

Sl. No.	Area in Ha	Plantation model	Cost of Plantation in Rs. per Ha.	Total Plantation cost in Rs.	Cost of SMC Measures in Rs. per Ha.	Total cost SMC measures in Rs.
1	100.0	ANR plantation @500 plants per ha	150051.00	15005100.00	39284.00	3928400.00
		Total		15005100.00		3928400.00

So, the cost of SMC measures amounting Rs. 3928400.00 is 26.18 % of total plantation cost of Rs. 15005100.00.

5. Proposed Monitoring Mechanism: The scheme shall be executed by the Divisional Forest Officer, Subarnapur Forest Division with his staff and all the prescribed records will be maintained throughout the planting operation. In addition to internal monitoring by Forest Officers of State Government, a Monitoring Committee under item no. 3.4(iii) of consolidated guidelines under F.C Act 1980 issued by MoEF, shall be established with a nominee of the Central Government to oversee that the stipulations, including those pertaining to Compensatory Afforestation are carried out.

6. The site selected for Compensatory Afforestation is located inside the Hatilimunda RF of the Birmaharajpur Range. This Reserve Forest is highly fragmented due to issuance of the titles under FRA and encroachment. Site selected for the CA is surrounded by the land under cultivation. Hence, a strong wire mesh fencing is highly essential to protect the CA plantation site from encroachment in the coming future. So, in order to ensure success of the plantation a strong wire mesh fencing is proposed in place of the bamboo twigs fencing as recommended in the one-time cost norm for Compensatory Afforestation issued vide Office Order No. 1109 dated 08.11.2021 of the PCCF, Odisha.

7. Total cost of the Compensatory Afforestation scheme:

SI. No.	Item of Work	Total Estimated Cost in Rs.	Details of the Operations are given in
1	Cost of ANR Plantation @500 plants over 100.00 Ha.	15005100.00	Annexure-B
2	Wire mesh fencing around plantation sites around 100.0 Ha. over 25000 RMT	46231600.00	Annexure-C
3	Soil Moisture Conservation Work over 100.0 Ha.	3928400.00	Annexure-D
4	Solar and Manual Watering over 100.0 Ha (Twenty Five Units).	1,30,06,525.00	Annexure-E
	Sub-Total:	7,81,71,625.00	

Total cost of the project: The total cost of the project is Rs.7,81,71,625.00 (Rupees Seven Crore eighty-one lakhs seventy-one thousand six hundred twenty-five) only as given above, which shall be payable by the user agency to the DFO, Subarnapur Forest Division.

CO-ORDINATES OF BOUNDARY PILLARS OF CA LAND IN HATILIMUNDA RESERVE FOREST

PATCH- 100.0 Ha.

Sl. No.	Latitude	Longitude	SI.	Latitude	Longitude
1	N21 00 097	E84 06 691	33	N21 00.955	-
2	N21 00.162	E84 06.707	34	N21 00.987	E84 06.824
3	N21 00 228	E84 06.723	35	N21 00.928	E84 06.783
4	N21 00 235	E84 06.689	36	N21 00.822	E84 06.761
5	N21 00.203	E84 06.669	37	N21 00.782	E84 06.750
6	N21 00.229	E84 06.618	38	N21 00.706	E84 06.672
7	N21 00.286	E84 06.658	39	N21 00.754	E84 06.616
8	N21 00.333	E84 06.654	40	N21 00.754	E84 06.599
9	N21 00.320	E84 06.614	41	N21 00.829	E84 06.603
10	N21 00.367	E84 06.586	42		E84 06.573
11	N21 00.377	E84 06.496	43	N21 00.870	E84 06.620
12	N21 00.409	E84 06.506	44	N21 00.899	E84 06.665
13	N21 00.513	E84 06.498	45	N21 00.945	E84 06.620
14	N21 00.557	E84 06.527	46	N21 01.092	E84 06.635
15	N21 00.576	E84 06.621	47	N21 01.110 N21 00.991	E84 06.541
16	N21 00.536	E84 06.636	48	N21 00.991	E84 06.454
17	N21 00.522	E84 06.615	49		E84 06.354
18	N21 00.491			N21 00.692	E84 06.239
19	N21 00.554	E84 06.644 E84 06.677	50	N21 00.673	E84 06.243
20	N21 00.559	E84 06.761	52	N21 00.634	E84 06.247
21	N21 00.621	E84 06.765	53	N21 00.603 N21 00.551	E84 06.247 E84 06.239
22	N21 00.615	E84 06.718	54	N21 00.478	E84 06.211
23	N21 00.628	E84 06.714	55	N21 00.458	E84 06.211
24	N21 00.648	E84 06.731	56	N21 00.443	E84 06.217
25	N21 00.661	E84 06.698	57	N21 00.415	E84 06.235
26	N21 00.680	E84 06.687	58	N21 00.382	E84 06.241
27	N21 00.774	E84 06.814	59	N21 00.338	E84 06.268
28	N21 00.774	E84 06.791	60	N21 00.223	E84 06.270
29	N21 00.738	E84 06.827	61	N21 00.189	E84 06.383
30	N21 00.859	E84 06.802	62	N21 00.156	E84 06.494
31	N21 00.893	E84 06.822	63	N21 00.123	E84 06.604
32	N21 00.920	E84 06.811	- 03		

	WAGE RATE R	s-311/- PER	MANDAY			
SL No	Items of work	Preferable Period of Execution	No of Mandays	Labour Cost (In Rs.)	Matrial Cost (In Rs.)	Total cost (in Rs.)
1	Oth Year (Advance w	ork) Fre Fla	inting Opera	tion		
1	Survey, Demarcation and Pillar posting.	Nort/Dies	1	622	0	622
2	Propatation of Treatment Map (Digital Map)	Now/line	-	311	100	411
3	Site perparation	Nov/Dec	1	622	0	622
٠	Silvicultural operations including clearance of word, cutting of elimber, high shamp cutting, singling of shoots & remarkal of cut out after drying from the field to blank space.	jan/frè	15	4665	0	4665
5	Alignment and stacking for digging of pits	Feb/Mar	1	311	0	911
6	Digging of just (45 cm x 45 cm X 45 cm) in hard and gravelly soil	Feb/Mar	20	6220	0	6220
_	Total	-	41	12751	100	12851
_	1st Yea	c/Planting Yes	ar			
1	Brilling of pits by altering the dugent unit of the pits, application of inganic compounds / CUM/ PEM & mixing the same perfectly.	June/Jul	•	1244	2500	3744
2	Transportation of 18 months old polythene bug seedings in hired truck /tractor from the permanent/Mega nursery to planting site including Lording & unloading. (Average lead of 10 Rim) & Stacking the seedling & Rs 6/-Seeding (\$50 nos.)	Jul/Aug	٥	a	3300	3300
,	Watering polythese bug seedlings at stacking one of plantation	lu/And	1	311	0	311
1	Conveyance of polythene has scedings on head lead from the stacking site to individual dugout pits within the planting site, applying insecticide, fortilizor & planting after scooping the soil with other applied materials and pressing the soil perfectly around the planted seeding.	Jul/Aug	11	3421	0	3421
200	Cost of Fretilizer & Inserticide a)NPK/ Bio-fortilizer @ 50 gms/plant as basal dose = 15kg @ 8x 30/- per kg = 8x 750.0 b) Urea/Vermicumpout/Mo Khafa/any ether fertilizer @ ix 375.00 c) Inserticide/ Bio-poseticide @ 5 gms/plant = 2.5 kg @	Jul/Aug		0	1500	1500
	a 150% nor kn = Rs. 375% asualty Replacement @ 10% (50 mm.)	Jul/Aug	1.5	466.5	0.0	466.5
4		Aug/Surg		1555	0	1555



N.		Preferable Period of Execution	No of Mandays	Labour Cost (In Rs.)	Matrial Cost (In Rs.)	Total co
	Part Warning Soil working [1m] diameter around the Dissis & Manusing	Oct/New		24811	0	2489
	The line tracing & Inspection path	Feb/Mar	1	933	0	933
10	Watch & Ward in Juding matering is per requirement	Aug Mar		2498		2480
-	Test	the second secon	41.5	12906.5	7.100.0	20206.5
-	7:4	Year Maintenance	re	omernos o	KILI TO VOLUME AND	
	Transportation of \$5 aredings from Surery to photosism who the briting leading unbooking & conveyance by Tractor P &s \$6' Det seedlings	log	0.0	0.0	300.0	300.0
-	Caveally replacement	jul	1.5	466.5	0.0	466.5
	Cost of Ferniker & Insectiode A3 Cost of Insectioner / Bio. positivity (Themsel / Frente) & 5 gms/plant + 25 kg & Rs 150 / pm kg + Rs 37.50 E) these/NPK/Bio fertilizer/Vermicompost/No Khata/any Weeding 15 compositions	July/Aug	0	0	1437.5	1437.5
5	Wooding [Complete versions]. Manusting & Soil working. Little diametric around the plants. The line ten ing (2 in, wide for line) & Imprection path.	Sep/Oct	g	2488	0	2448
	Katch & Ward including watering as por requirement	Feh/Mar	3	933	a	933
	Teta	Apr/Mar.	24.5	3732	0	3732
1 le		ear Maintenance		7619.5	1737.5	9357
100	lrea/NPK/illo fortiliver/Vermicompost/Ma Khata/any ther fortilizes By 1400/	July/Aug	0		1400.0	1400.0
	ording (Complete wording). Manuring & Soil working, et. diameter around the plants)	Sep/Ort		2488	0	2498
_	re line tracing (2 m. wide fire line) & Inspection path	Feb/Mar	1	933	0	933
+	atch & Ward including watering as per requirement	Apr/Mar	12	3732		3732
	Total	and the second second second	23.0	7153.0	1400.0	8553.0
Tex		ar Maintenance		200000000	-	
Wat	tine tracing (2 m. wide fire line) & Inspection path	Feb/Mar	3 1	933	0 1	933
1	tch & Ward including watering as per requirement	Apr/Mar	12	3732	0	3732
	Total		15	4665	0	4665
200		er Maintenance			F = 5 F W.	
Wate	the tracing (2 m, wide fire line over 400 m length) th & Ward Including watering as per requirement	Exh/Mor	3.0	933.00	D	933
1	Total	Ape/Mar	12	3732.00	.0	3732
		r Maintenance	15.0	4665,0	9	4665
		The state of the s				
Fire I	ine tracing (2 m, saide fire the ower 400) as leasth (l'ob/Mar	3	93100	0 1	911
Fire i	ine tracing [2 m. under fire time over 400 m irrogh] h & Ward im hading watering as per requirement		12	3712.00	0	933 3732
Fire i	ine (chapt (2 m. wide fire the over 400 m imph) h & Ward in hiding watering as per requirement Total	Petr/Mar Apr/Mar			D	
Fire &	ine (charge (2 m. wride fire this over 400 m (cryph)) h & Ward in highing watering as per requirement Total 7th Year no (racing (2 m. while fire line over 400 m (courth))	Poh/Mar Apr/Mar Maintenance	15.0	3712.00 4665.0	0.0	3732 4665.0
Fire &	ine (charge (2 m. wide fire the over 400 m length) h & Ward im hading watering as per requirement Total 7th Year no tracing (2 m. white fire line over 400 m length) h & Ward including watering as per requirement	Petr/Mar Apr/Mar	12 15.0	3712.00 4665.0	0.0	3732 4665.0 933
Fire &	ine (charge (2 m. wide fire the over 400 m length) h & Ward incheding watering as per requirement Total 7th Year ne tracing (2 m. wide fire line over 400 m length) h & Ward including watering as per requirement Total	Not/Mar Apr/Mar Maintenance Feb/Mar Apr/Mar	15.0	3712.00 4665.0	0.0	3732 4665.0
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Fire &	ine (charge (2 m. wide fire the over 400 m length) h & Ward im hading watering as per requirement Total 7th Year ne tracing (2 m. wide fire line over 400 m length) h & Ward including watering as per requirement Total 8th Year ne tracing (2 m. wide fire line over 400 m length) & all operation.	Peh/Mar Apr/Mar Peh/Mar Apr/Mar Apr/Mar Apr/Mar Maintenance Feb/Mar	12 15.0 3 12 15.0	3712.00 4665.0 933.00 3712.00 4665.0	0 0 0 0 0 0	3712 4665.0 933 3772 4665.0
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Fire to Massel Vare t	ine tracing (2 m. wide fire the over 400 m length) h & Ward im heding watering as per requirement Total 7th Year ne tracing (2 m. wide fire line over 400 m length) 6 Ward including watering as per requirement Total 8th Year ne tracing (2 m. wide fire line over 400 m length) & all operation 6 Ward including watering as per requirement Total 9th Year or tracing (2 m. wide fire line over 400 m length) & Ward including watering as per requirement Total 9th Year or tracing (2 m. wide fire line over 400 m length) Total 10th Year	Poh/Mar Apr/Mar Feb/Mar Apr/Mar Apr/Mar Apr/Mar Apr/Mar Apr/Mar Maintenance Feb/Mar Apr/Mar Maintenance Maintenance	12 15.0 3 12 15.0 3 12 15.0 3 12 15.0	3712.00 4665.0 933.00 3712.00 4665.0 933.00 2732.00 4665.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9712 4665.0 931 27742 4665.0 933 3732 4665.0
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SI. No	Items of work	Period of No of Execution Mandays		Labour Cost (In Rs.)	Matrial Cost (In Rs.)	Total cost (in Rs.)		
**	Year	Ma perturn days	Labour cost #6 Rs. 311/- per day (Rs)	Material Cost	Brothering Brothering, Learning, Documentation and Other Contingency (5%) of (4-%)	Com of Sectings #RLS031 per sectings	TOTAL COST	
1	1	3	•	5		7		
1	Dih year	41	127510	100.0	549.00	0.00	33400.00	
2	Istycar	41.5	12904.5	73000	391.50	27671.00	48871-00	
2	Zud year	24.5	70193	1717.5	443.00	2516,00	12116-00	
4	3rd year	21.0	7153.0	1400.0	347.00	0.00	6900.00	
5.	6th year	15	4665.0	0.0	135.00	0.00	4900.00	
6	Sth year	15	4665.0	0.0	135.09	0.00	4800.00	
7	6th year	15	40050	0.0	135.99	0.00	4900.00	
u	7th year	15	4065.0	0.0	135.99	9.00	4800.00	
9	St), year	15	4005.0	0.0	135.99	0.00	4600.00	
	7th year	15	40050	0.0	135.00	0.00	4800.00	
	10th year	15	60000	0.0	135,90	0.00	4809.09	
-	Yetab	235.0	73085.0	10537.5	3277.5	30187	117097.00	

Notes

- Priority must be given to the indigenous local apocies available nearby to the site of plantation.

 10 % indigenous first bearing trees must be protected to Plantation.

 See specific Sed reservation work like LBCD, Gully Plugging. Steppered Trench, Continue Yearch, Casted Brieff, etc. may be taken up.

 Claim link leading can be adopted in the CA plantation taken up include the forest area and Hambon trees fencing may be prefered to CA plantations. Watering Souther See procurement of water 4 watering may be adopted as per the availability of reafer. The Cost Norse of various stems can be changed with the approval of the concerned 8CCDs hereing the averall cost norm from the cach Financial Year.

APCCF (Forest Diversion & NO, FC Act)

		10 2030-31		9 2029-90	+	8 2028.39	7 2027-28	-	6 2025-27	2000	+	4 2024-25		1703-24	14070 53881		1 2021-22 13400 51315 13577 11		Base Norm 13400 48871 12316 8	
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	L	1	19799	-	72206	9670		13149		7592	250.5	-	1352		7392	7092		4800		R
	20703	-	75816	-	19104	90961		7417		7447	147		74.7	T	7447	7445	1	4		×
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Ü	21062	1	15221	225	510	8210	1	8710		8710	8210		8209		8210		1	1		×
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ARCCF (Forest Diversion & NO, FC Act)

THE RESIDENCE THE PERSON

In Rupees

_	cing for Compensatory Plantation raised outside the	nt/fla.)			- I A TO THE OWNER OF THE OWNER O	100000000000000000000000000000000000000
-	WAGE RATE RE-	CANADA COLO I COM, SHERROW	AY			
	Items of work	Preferable Period of Execution	Man days	Wages	Material cost (Rs)	Total Cost (R: per IIa.)
-	Larth work (Excavation of hole) in Hard suit at a distance 1 mt	r (PPO)				
ı	Rt. 753.		2.42	752.62	0.0	752.6
2	Comunit concrete (1 - 4 - 8) using 40 mm BHG metal 84 X 0.40m X 0.40m X 0.10m = 1.344 # 3755 94/com		-0	0	5,047.4	5,047.4
3	Angle Iron pole of size 50 mm X 50 mm X 6 mm of height 2.40 mt. 84 x 2.40 = 201.60 Sqmt. 89 4 50/kg/ Sqmt. = 907 20 kg @ 69 50 per kg				63,050.0	63,050.0
•	Removed the state of the state				22,123.0	22,123.0
5	Cost of Chain link mess using 4 mm Dia Gl were having gap size 50 mm X 50 mm				1,73,775.0	1,73,775.0
6	250 Rint X 2.10 mt 525 Sq mt 49 3.31/Sqmt - Rs 1,73,775 Double cost painting of tion angel pole over a cost of presser using good quality enamale paint good quality enamale paint. 49 Rx 108 80/Sqmt				3,838.0	3,838.0
7	Painting of Cl chain link mess 250 x 2.10 x 2 x 1050/10 x 105 Sqmt. 80 Rx. 100 80 Sqmt.				11,424.0	11,424.0
8	Transportation of Chain link mess, from angle, Straightening & lieling of chain link mess our @ 2% of the total cost.				5,600.0	5,600.0
	TOTAL.		2.42	752.62	2,84,857,4	2,85,610.0
	e per running mt. 2,85,610/ 250= Rs. 1142/Rmt	taintenance			3000	
9	•	Sept/Oct	1 0	D	0.	
1	No Maintenance is required. 2nd Year I	Maintenance				
,	Maintenance of wire most fence 69 1% per running int. cost of installation in 151 yr.	Sept./Oct	0	0	11000	11000
	3rd Year	Maintenance	_	T	1	1
1		Sept/Oct	0	0	11000	11000
-		Maintenance		-	-	1
1	Maintenance of wire mess fence & 1% per running mt. cost of installation in 1st yr.	Sept./Oct	0	0	11000	11000
+	1142x 1% + 11.42 my 8x. 11 Sth Year	Maintenance			-	_
	Maintenance of wire mess fence @ 1% per running mt. cust of installation in 1st yr.	Sept./Oct	0		11000	11000
	1142x 1% = 11.42 say Rs. 11 6th Year	Maintenance			•	
- 3	Maintenance of wire meas fence 60 1% per running ms. cust of installation in 1st yr. 1142x 196 = 11.42 may Rs. 11	Sept./Oct	0	0	11000	11000
_	7th Year	Maintenance	2000			
	Maintenance of wire mess fonce @ 196 per running mt. cost of installation in 1st yr.	Sept/Oct	0	0	11000	11000
-	1142+ 1% = 11.42 say Rs 11 8th Year	Maintenance	- CLOSE - CONTRACT	ile in the	W.	
	Maintenance of wire mess fence @ 1% per running mt. cost of unstallation in 1st yr. 1142x 1% = 11.42 say Rs. 21	Sept./Oct	0	0	11000	11000
H	9th Year	Maintenance				_
H	Maintenance of wire mess lence @ 1% per running mt. cost of a wastallation in 1st yr.	Sept./Oct	0	0	11000	11000

SI.	Items of work	Preferable Period of	Man days		Material cost (Rs)	Total Cost (Rs per Ha.)
1	Mainternance of wire mass fence @ 2% per running int. cost of installation in 1st yr. [142z 1% = 11.42 say Rs. 1]	Sept./Oct	0	۰	11000	11000

-	Abstract				
SL. No	Year	No. person days	Cost @ Rs. 311/- per day	Material Cost	Total cost (Rs.)
	Oth year	2.42	752.6	284857.4	285610.0
_	Istyear	0.0	0.0	0.0	0.0
	2nd year	0.0	0.0	11000.0	11000.0
	3rd year	0.0	0.0	11000.0	11000.0
	4th year	0.0	0.0	11000.0	11000.0
9 15	5th year	0.0	0.0	11000.0	11000.0
16	ith year	0.0	0.0	110000	11000.0
	th year	0.0	0.0	11000.0	11000.0
Bi	th year	0.0	0.0	11000.0	11000.0
140	h year	0.0	0.0	11000.0	11000.0
140	ith year	0.0	0.0	11000.0	11000.0
	Totals	2.42	752.62	383857.4	3,84,610.0

APCEF (Forest Diversion & NO, FC Act)

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ğ	T					5755	25.5	277.0	20743	9	2000	30743
ā	T				33755	35.051	3225	19755	23.05	19755	19755	1975
ā	1	T		3804	1891	1	7	2883	2887	11mt	3883	CHE
×	11000		2362	130	17918	17918	1367	133	173.8	17979	17836	n
	+	11000	1,7054	:7065	10065	17064	3300	1001	1756	1200	u	#130%
×	+	1	16.53	75291	16291	3331	1635	89.	16230	0	176127	
Ē	+	1000	ES-23	13477	1508	7.	55.5	15436	0	401883		
Ę	+	11000	34740	3550	1707	304	503		M2738			
5	-1	11000	607	5007	991	1,433	n	36-530				
>	-	11000	13370	1393	13388		347,62					
2	-	11,000	250	1333	0	330830						
=		11000	811	0	32,488							
		0		231852								
-		285610	285610					1				
Comment	Year	Base Norm	-	2002	10.00	3034.75	100	1	r-amr	2027-28	2028-29	2013-30
	9	- Per	-	~	1 -	-	-		-	_	-	. 5

APCCF (Forest Diversion & NO, FC.Act)

The state of the s

out N	SMC Works Model-C orms for creation of Compensatory Afforestation with Stabilization of Soil & C	onservation of A	delsture (100
	Plants/ Ha.)	2017-076-24	and the same
	WAGE RATE RS-311/- PER DAY	Preferable	
SI.No	Item of Works	Period of Exception	Total Cos
-	Oth Year (Pre-Planting Operation)	1000000000	
1	NII		
2	Jos Year Soil Conservation measure structures like Staggered Treach, Fors obsisted pit, Continue trench, Graded earthes band, LHCD, Wire mesh LHCD, Sub-surface Dyke A Will as per the slope A site requirement on LS	Apr/Sept.	20,215
_	2nd Tear	Apr/Inf	3,932
3	Maintenance of SMC stem tures ## 15 % of mixed year cost		- CV
		Apr/Inf.	3,032
_	Maintenance of SMC structures (# 15 % of out of year cost 4th Year	Apr/jul	3,692
5	Maintenance of SMC structures & 15 % of inclui pear cost	Ph//ps	
_	eth Year	Apr/Jul	3,632
5	Maintenance of SMC structures # 15 % of initial year cost Total		32,343.0

n.	Tear	No. person days	Ha. 311/-per day	Haterial Cost	Total cost (Rs.)
Ne		9.0	0.0	0.0	0.0
1	nit year	9.0	0.0	20,215.0	20,215.00
1	lut year	do	80	3,032.00	3,032.00
3	2nd year	9.0	0.6	3,032.00	3,03200
+	let year	0.0	0.0	1,032.00	1,032 00
5	4m year	0.0	0.0	1,032.00	3.032.00
	Sth year Total		0.00	32,343.0	32,343.0

Different types of SMC structures may be taken up as per the scope & requirements of the plantation site out of the design & specification of different structures annexed along this document.

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L									,	27226	20215	=
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L	1					0	13/61	3009		3000	3032	2
_	1				0	24571	3684	3636	Char	3836	3032	<
	-	\perp	L	0	25800	3858	3870	3869	39.70	1000	2022	4
	L		u	27090	4061	1933	4053	404			T	≦
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0	31360	4701	4734	4302	4704				+	+	+	
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55274	25	*	1	-	-	-						×
774	52642	\$6105	47749	45475	43310	41248	39284	37415	35633			Total Cost

(F

	Watering Model-W-III	
	Watering provision to CA Plantation	
	Solar System (One Solar Energy Fump/ 5 Ha Plantation, Wage rate @ Rs 311/-	
_	Year of Installation (0th Year)	-
-	Cost of Borewell	150000
		300000
2	7 - Ot UD substance able made at	50000
4	Water Storage Tanks / Elevible pines	15000
4	Total	5,15,000
-	t of Water per Mant (\$15000/ 5000)- Rs. 103/-	
	t of Water per IIa. = Rs. 1,03,000/-	
.05	1st Year Watering	
_	Cost of Water - 103 x 1000	0
2		21.100
h	Watering 1000 Plants (Nov-Mar.) 66 200 plants/MD with 7 days rotation	31,100
	20 MD x 5 months - 100 MD x 311 - Total	31,100
		34,100
	2nd Year Watering	
	Cost of Water per plant @ 20% of installation year cost	21.000
	103 x 20% = 20.60 or 21.00	21,000
•	For 1000 plants- 21 x 1000=	
-		Vicania.
ъ.	Watering 1000 Plants (April- June & Nov-Mar 8 months) @ 200 plants/MD with 7 days rotation	49,760
ø,	20 MD x 8 months = 160 MD x 311 =	
-	Total	70,760
-	3rd Year Watering	
-	Cost of Water per plant @ 20% of installation year cost	
		21,000
•	For 1000 plants= 21 x 1000=	
-	For 1999 person of the Paragraph of 2000 plants (MD with 7 days rotation	
h.	Watering 1000 Plants (April- June & Nov-Mar 8 months) @ 200 plants/MD with 7 days rotation	49,760
*	20 MD x 8 months = 160 MD x 311 =	
-	Total	70,760
-	4th Year Watering	
-	Cost of Water per plant @ 20% of installation year cost	
	103 x 20% = 20.60 or 21.00	21,000
-	For 1000 plants- 21 x 1000-	
	Watering 1000 Plants (April- June & Nov-Mar 8 months) @ 200 plants/MD with 7 days rotation	CHOSES
Ь.		49,760
_	20 MD x 8 months = 160 MD x 311 =	
_	Total	70,760
	5th Year Watering	
_	Cost of Water per plant @ 20% of installation year cost	To the Property
	103 x 2096 = 20.60 or 21.00	21,000
-	For 1000 plants= 21 x 1000=	
_		435768
h	Watering 1000 Plants (April- June & Nov-Mar 8 months) @ 200 plants/MD with 7 days rotation	49,760
	20 MD x 8 months = 160 MD x 311 =	
_	Teta	70,76

-	Abstract		Commission of the last		
SL No	Year	No. person days	Labour cost & Rs. 311/-per day	Material Cost	Total cost (Rs-)
1	Oth year	0	0.0	103000.0	103000.0
_	1st year	100.0	31100.0	0.0	31100.0
-	2nd year	160	49760.0	21000.0	70760.0
_	3rd year	160	49760.0	21000.0	70760.0
	4th year	160	49760.0	21000.0	70760.0
	Sth year	160	49760.0	21000.0	70760.D
-	Total:	740	230140	187000	4,17,140

APCCF (Forest Diversion & NO, FC Act)

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in Rupees	2												
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	Ę									17:02	111020	121036	121013
	R							T	115259	115257	115253	115250	50658
	×							077601	69/601	109774	109752	48246	159789
	×						104543	104542	104547	104535	45949	152180	
L	Na Na					59565	99564	69556	99557	19267	144933		
	5				34834	94823	94828	97876	41577	13803.			
	5	Same	20/20	90309	80308	90312	90303	39692	131458	E.S 11			
	>	30360	3	86008	86011	36001	37802	125198					
	2	20750		81915	81906	36002	119236						
	E	70760		78006	34288	113558							
i	-	31100		32655	108150								
83	-	103000	2000	103000									
Commence	ment Year	BaseNorm		2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31
_	ğ	Bas		-	~	m	4	5	w	_	60	on	9

ARCCF (Forest Diversion & NO, FC Act)

CERTIFICATE ON DSS ANALYSIS FOR CA / ACA / PCA

This is to certify that DSS Analysis of Land identified for CA/ ACA/ PCA over 102.27 Ha degraded forest land in Hatimuda RF of Subarnapur Forest Division in-lieu of Diversion of Forest Land for 220 KV DC Transmission line from existing 220/132 KV Grid Sub Station at Kesinga to proposed 220/132/33 KV Grid Sub Station at Baliguda and subsequent ground truthing have been done. The Outcome is as mentioned below:

Vary Dense Moderately Open Non-Forest Scrub Water Total Non-Forest Forest	Name of the Forest Block A	_		Classif	ication of	identified land	(in Ha)			Area suit	d and either	antation	(in Ha)		
5 6 7 8 9 10 11 12 13 14 15 16 16 0 0 102.27 24.07 0 102.27 24.07 0 102.27 24.07 0 102.27 24.07 0 102.27 24.07 0 102.27 24.07 0 102.27 24.07 24.	58	for CA/ACA/ PCA (In Ha.)	Very Dense Forest	Moderately Dense Forest	Pomst	Non-Forest	Scrub	Water	Total	Porest	Non- Forest	Scrab	10	Model AR	Remarks
0 0 78.2 24.07 0 0 102.27 78.2 24.07 0 102.27		4	s	9	1		6	10	Ξ	12	13	14	15	21	11
	102	22		0	78.2	24.07	٥	0	102.27	782	24.07	0	102.27	AMR @ 500 PlantHa	

