



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲି.ଓ.
ODISHA POWER TRANSMISSION CORPORATION LIMITED

(A Government of Odisha Undertaking)

OFFICE OF THE DEPUTY GENERAL MANAGER (ELECTRICAL),
EHT (CONSTRUCTION) DIVISION, OPTCL, KEONJHAR.

At- Baladevjew colony, Lane No.-8, Jagannathpur, Dist-Keonjhar, PIN758001

Telephone: (06766) 254364, Email: ehtc.div.knj@optcl.co.in

Letter No.: 636(8)

Date:30.12.2024

To

The Divisional Forest officer,
Keonjhar Forest Division,
Keonjhar

Sub: Submission of Stage-I Compliance Report for Diversion of 8.435 Ha. of Forest Land for construction of 220 KV/DC Transmission Line from 400/200 KV DACIL Grid sub-station, Keonjhar to 220/132/33 KV Grid Sub-station at Turumunga , Keonjhar by OPTCL.

Ref: (1) Letter No. S-ORC 576/2023-BHU, dated 14.03.2024 of Integrated Regional Office of Govt. of India, Ministry of Environment, Forest & Climate Change (IRO, Gol, MoEF&CC).

(2) Your good office Letter No. 2874, dated 02.04.2024.

Sir,

with reference to the subject cited above, we are submitting herewith the detail compliance report with undertaking documents and schemes as stipulated in the Stage-I order by IRO, Gol, MoEF&CC for the above mentioned project. Further, we request you to take necessary action for transmitting the compliance report to higher quarter for obtaining Stage-II/final Forest Clearance for the above mentioned project of OPTCL.

This is for favour of kind information and necessary action, please.

Yours faithfully,

Deputy General Manager (Elect.)
E.H.T (Const.) Division, OPTCL, Keonjhar.

Encl. As above.

C.C

1. The Regional Chief Conservator of Forests, Rourkela Circle, Rourkela for favour of kind information.
2. The Principal Chief Conservator of Forests, FD & NO,FC Act, O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar for favour of kind information.
3. The ED, Northern Zone, OPTCL, Balasore for favour of kind information.
4. The CGM,CMC,OPCTL,BBSR for favour of kind information.
5. The GM (Ele.), EHT (Const.) Circle, OPTCL, Jajpur Road for favour of kind information.
6. M/s. Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar for information & immediate necessary action.
7. SDO(EI),EHT(C) S/D,Turumunga for information & necessary action.

Received

30.12.24

A: Conditions which need to be prior to handling over of forest land by the State Forest Department.

Sl. No.	Condition	Compliance
i.	The user agency shall transfer online, the Net Present Value (NPV) of 8.435 ha forest land being diverted under this proposal, as per the Orders of Hon'ble Supreme Court of India dated 28.03.2008, 24.04.2008 in Writ Petition (Civil) No.202/1995 and the guidelines issued by this Ministry vide its letter No.5-3/2011-FC (Vol-I) dated 06.01.2022, 9.01.2022 & 22.03.2022. The requisite funds shall be transferred through online portal in CAMPA account of the State concerned.	OPTCL has transferred Rs. 94, 21,052.00 through RTGS in CAMPA Account towards NPV of 8.435 Ha. of diverted forest land as per the Demand Note of the Divisional Forest Officer, Keonjhar. The copy of the Demand Note and the RTGS challan copy are being enclosed as Annexure I & I (A) .
ii.	The State Govt. shall realize Penal NPV of five (5) times of the areas used for non-forestry activity.	OPTCL has deposited Rs. 15,818.00 towards penal NPV through RTGS in CAMPA Account. The Demand Note of DFO, Keonjhar and RTGS challan copy is enclosed as Annexure II & I (A) . The detail payment statement towards NPV & Penal NPV has been furnished by OPTCL as Annexure II (A) .
iii.	The user agency shall transfer the cost of plantation of 100 trees to be planted as Penal Compensatory Afforestation (including 10 years maintenance) at the current wage rate in consultation with State Forest Department in the account of CAMPA of the concerned State through online portal. The plantation Scheme may include appropriate provision for anticipated cost increase for works schedule for subsequent years.	OPTCL has deposited Rs. 2,45,800.00 towards the cost of plantation of 100 trees as penal Compensatory Afforestation (including 10 years maintenance) as per the Demand Note of the DFO, Keonjhar. The copy of the plantation scheme, Demand Note of DFO Keonjhar and RTGS challan copy are being enclosed as Annexure III, III(A) & III(B) . Further OPTCL has enclosed a statement showing details of fund transferred as Annexure III(C) .


Deputy General Manager (Elect.)
E.H.T. (const.) Division
OPTCL, Keonjhar

iv.	The land identified for the purpose of Compensatory Afforestation shall be clearly depicted on a Survey of India Topo sheet of 1:50,000 scale.	The land identified over 18.00 Ha. in Ukhunda R.F under Champua Forest Range of Keonjhar Forest Division has been depicted on Survey of India Topo sheet of 1:50000 scale. The copy of the Survey of India Topo sheet showing the boundary of the Compensatory Afforestation land is enclosed as Annexure IV.
v.	The KML files of the area to be diverted and the CA areas shall be uploaded in the e-Green watch portal with all requisite details before issuing working permission towards linear projects or submitting compliance report for seeking Stage-II approval, as the case may be.	The KML file of the C.A land and the diverted Forest land has been uploaded in e-green watch portal.
vi.	The user agency shall transfer the cost of raising and maintaining the compensatory afforestation at the current wage rate in consultation with State Forest Department in the account of CAMPA of the concerned State through online portal. The scheme may include appropriate provision for anticipated cost increase for works Schedule for subsequent years.	The Compensatory Afforestation Scheme has been prepared with 10 years maintenance by DFO, Keonjhar which has been technically approved by PCCF (Nodal). The approved C.A Scheme includes appropriate provision for anticipated cost increase for work schedule for subsequent years. Accordingly, OPTCL has deposited Rs. 1,64,74,700.00 in CAMPA Account through RTGS as per the Demand Note of the DFO, Keonjhar. The copy of the approved C.A Scheme, RTGS challan copy and the Demand Note of DFO, Keonjhar are enclosed as Annexure V, V (A) & V (B).
vii.	The user agency in consultation with the State Forest Department shall prepare a detailed scheme for creation and maintenance of plantation of dwarf species (preferably medicinal species) in right of way under the transmission line, and provide funds for execution of the said scheme by the State Forest Department.	OPTCL in consultation with DFO, Keonjhar has prepared the Dwarf Scheme for creation and maintenance of Dwarf species. The scheme has technically approved by RCCF, Rourkela. OPTCL has deposited Rs 1, 64, 80,450.00 towards the implementation of Dwarf species plantation scheme as per the Demand Note of DFO, Keonjhar. The copy of the

		<p>approved scheme, Demand Note of DFO, Keonjhar and RTGS challan copy are being enclosed as Annexure VI, VI (A) & III (B).</p> <p>Further OPTCL has enclosed a statement showing details of fund transferred as Annexure III(C).</p>
viii.	<p>As recommended by the State Govt, a Site-Specific Wildlife Conservation Plan shall be prepared and duly approved by CWLW, Odisha and to be implemented at project cost.</p>	<p>The Site Specific Wildlife Conservation was prepared by DFO, Keonjhar, which has been duly approved by the PCCF (WL cum CWLW) Odisha. Accordingly, OPTCL has deposited Rs.1,35,76,200.00 in CAMPA Account as per the Demand Note of DFO, Keonjhar. The copy of the approved plan, Demand Note of DFO Keonjhar and RTGS challan copy are enclosed as Annexure, VII, VII (A) and III (B).</p>
ix.	<p>All the funds received from the user agency under the project shall be transferred/deposited in CAMPA account only through e-portal (https://parivesh.nic.in/). Amount deposited through other mode will not be accepted as compliance of the Stage-I clearance.</p>	<p>OPTCL has deposited in CAMPA Account through e-portal.</p>
x.	<p>The compliance report of the Stage-I approval shall be uploaded on e-portal (https://parivesh.nic.in/).</p>	<p>OPTCL has uploaded the Stage-I Compliance report in e-portal.</p>
xi.	<p>The complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificate from the concerned District Collector.</p>	<p>The Complete Compliance of the FRA-2006 has been obtained from the Dist. Collector & Magistrate, Keonjhar for this project of OPTCL. The certificate along with the compliance reports are enclosed as Annexure-VIII.</p>


 Deputy General Manager (Elect.)
 E.H.T. (Const.) Division
 OPTCL, Keonjhar

xii.	The boundary of the Proposed forest land for diversion, shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement pillars, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates.	The Boundary of the Forest land proposed for diversion over 8.435 Ha. has been surveyed through DGPS. The DGPS Survey map with Boundary co-ordinates has been approved by ORSAC. Accordingly OPTCL has demarcated the forest land proposed for diversion in the ground. The copy of the DGPS map and the distance of pillar to pillar are enclosed as Annexure-IX & IX (A) .
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B: Conditions which need to be strictly complied on field after handing over of forest land to the user agency by the State Forest Department but the compliance in form of undertaking shall be submitted prior to Stage-II approval.

Sl. No.	Condition	Compliance
i.	Legal status of forest land proposed for diversion shall remain unchanged.	OPTCL has furnished an undertaking that the legal status of the forest land shall remain unchanged as Annexure X .
ii.	Compensatory afforestation shall be raised over 16.870 of degraded forest land identified in Ukhunda RF under Champua Range of Keonjhar Forest Division within two years from the date of Stage-II Clearance and maintained thereafter by the State Forest Department, at the cost of user agency.	OPTCL has deposited Rs.1,64,74,700.00 for raising Compensatory Afforestation as per the demand note of DFO, Keonjhar towards the degraded forest land over an area of 18 Ha. Against diversion of 16.870 Ha. of forest land identified under Champua Forest Range of Keonjhar Forest Division. The plantation activities shall be taken up by the DFO, Keonjhar as per approved Cost & Norms prescribed in the Compensatory Afforestation Scheme Annexure V, V(A) & V(B) .


 Deputy General Manager(Elect.)
 E.H.T.(Const.) Division
 OPTCL,Keonjhar

iii.	The State Govt. shall carry out plantation of 100 plants towards Penal compensatory afforestation within two years from the issue of approval and maintained thereafter, at the cost of user agency. The State Govt. shall inform the site of the plantation.	The Penal Compensatory Afforestation Land for planting 100 plants has been identified in in Belda RF, according OPTCL has deposited Rs.2, 45,800.00 towards PCA in CAMPA Account. The approved Scheme and the payment details are enclosed as Annexure III, III(A) & III(B).
iv.	The species to be planted in the CA/Penal CA scheme shall be of native species of the area .At least 18 month old seedlings should be planted. Intensive monitoring of the plantation needs to be done and documented using Geo tagging so that the increase of canopy density and survival and growth of plantation can be at regular intervals.	18 months old seedling along with native species has been prescribed in the C.A and PCA Scheme with Soil Moisture Conservation and Monitoring Provision. The plantation activities shall monitor from time to time by the DFO, Keonjhar.
v.	At the time of payment of Net Present Value(NPV) at the prevailing rate, the user agency shall furnish an undertaking to pay the additional amount of NPV,if so determined, as per the final decision of the Hon'ble Supreme Court of India.	OPTCL has paid Rs.94,21,052.00 towards NPV through RTGS in CAMPA Account. Further OPTCL has furnished an undertaking to pay the additional amount of NPV, if so determined as per the final decision of the Hon'able Supreme Court of India, which is enclosed as Annexure XI.
vi.	The base of towers in forest area to be fenced with barbed wire to avoid elephant electrocution/death of wild animals especially in forest areas.The concerned DFO shall inspect the area and shall take a decision as to the specific towers which shall be fenced with barbed wire along leg of the towers.	The leg of the base towers in forest areas shall be fenced with barbed line at the project cost of OPTCL to avoid elephant electrocution/death of wild animals. Therefore, OPTCL has furnished an undertaking which is enclosed as Annexure XII.
vii.	In hilly slope areas,sufficient ground clearance has to be maintained with additional height of towers in consideration of the sag and swing of lines and height of elephants to stop untoward incidence of electrocution as per existing guidelines of MoEF& CC dated 05.05.2014 and 19.11.2024	OPTCL has furnished an undertaking that in hilly slope areas, sufficient ground clearance has to be maintained with additional height of towers in consideration of the sag & swing of lines & height of elephants to stop ontoward incidence of electrocution as per existing guidelines of MOEF&CC dated


 Deputy General Manager (E&C)
 E.H.T. (const.) Division
 OPTCL, Keonjhar

		05.05.2014 & 19.11.2024, which is enclosed as Annexure XIII.
viii.	The user agency at its cost shall provide bird deflectors, which are to be fixed on upper conductor of transmission line at suitable intervals to avoid bird hits.	OPTCL has furnished an undertaking that they shall provide bird reflectors, which are to be fixed on upper conductor of transmission line at suitable intervals to avoid bird hits which is enclosed as Annexure XIV.
ix.	The user agency shall explore the possibility of successful transplantation of maximum number of trees identified to be felled and shall ensure that any tree felling shall be done only when it is unavoidable and that too under strict supervision of the State Forest Department.	OPTCL has furnished an undertaking that they shall explore the possibility of successful transplantation of maximum trees identified to be felled for construction of its projects and further OPTCL ensure that tree felling will be done in unavoidable circumstances; the undertaking is enclosed as Annexure XV.
x.	The user agency shall comply with the guidelines for laying transmission lines through forest areas issued by Ministry vide letter No.7-25/2012-FC dated 05.05.2014 and 19.11.2014.	OPTCL has furnished an undertaking that they shall comply with the guidelines for laying transmission lines through forest areas issued by Ministry vide Letter No. 7-25/2012-FC dated 05.05.2014 and 19.11.2014, which is enclosed as Annexure XVI.
xi.	The user agency shall obtain Environmental Clearance as per the provisions of Environment (Protection) Act 1980, if applicable	The Environmental (Protection) Act 1980 is not applicable to the transmission line project. Hence clearance under Environmental (Protection) Act 1980 is not required to this project of OPTCL. Further OPTCL has furnished an undertaking that they shall obtain Environmental Clearance, if applicable to this project. The undertaking is furnished as Annexure XVII.
xii.	No labour camp shall be established on the forest land and the user agency shall provide fuels preferably alternate fuels to the labourers and the staffs working at the site so as to avoid any damage and pressure on the nearby forest areas	OPTCL has furnished an undertaking that no labour camps shall be established on the forest land proposed for diversion, further OPTCL undertake that they shall provide alternate fuel to the labourers and the staffs working at the site to avoid any

		damage and pressure on the nearby forest areas, the undertaking is enclosed as Annexure XVIII.
xiii.	No additional or new path will be constructed inside the forest area for any activity related to the project work	OPTCL undertake that no additional or new path will be constructed inside the forest area for any activity related to the project. The undertaking is furnished as Annexure XIX.
xiv.	The user agency while executing works, shall not fell any tree or damage forest growth in the surrounding forest area in any manner.	OPTCL has furnished an undertaking that they shall not fell any tree or damage forest growth in the surrounding forest area in any manner for executing its project, which is enclosed as Annexure XX.
xv.	The layout plan of the proposed forest land shall not be changed without prior approval of Ministry of Environment, Forest & Climate Change.	OPTCL has furnished an undertaking that they shall not change the layout plan of the forest land proposed for diversion without prior approved of Ministry of Environment, Forest and Climate Change, which is enclosed as AnnexureXXI
xvi.	The forest land shall not be used for any purpose other than that specified in the proposal.	OPTCL has furnished an undertaking that the forest land over 8.435 Ha. For construction of 220 kV/DC transmission line shall be used for construction of towers and laying of transmission lines. The undertaking is enclosed as Annexure XXII
xvii.	The forest land proposed to be diverted shall under no circumstances be transferred to any other user agency, department or person without the prior approval of Ministry of Environment, Forest & Climate Change.	OPTCL has furnished an undertaking that the forest land over 8.435 Ha. proposed to be diverted shall undergo no circumstances the transfer to any other user agency, department or person without prior approval of MoEF&CC, which is enclosed as Annexure XXIII



Dputy General Manager (Elect.)
E.H.T. (const.) Division
OPTCL, Kozhikode

xviii.	No damage to the flora and fauna of the adjoining area shall be caused.	OPTCL has furnished an undertaking that they shall not damage the Flora & Fauna of the adjoining area while executing its project activity, which is enclosed as Annexure XXIV
xix.	The concerned Divisional Forest Officer, will monitor and take necessary mitigative measures to ensure that there is no adverse impact on the forests in the surrounding area.	OPTCL has furnished an undertaking that they shall take necessary precaution / mitigative measures that no adverse impact on the forest area surrounding to its project, which is enclosed as Annexure XXV
xx.	The user agency shall submit annual self-monitoring report on compliance of stipulated conditions to the Nodal Officer (FCA) OF THE State and concerned Integrated Regional Office of this Ministry by the end of March every year.	OPTCL has furnished an undertaking that they shall submit annual self compliance report to the Nodal Officer of the State and IRO Bhubaneswar, MoEF&CC by the end of March every year, which is enclosed as Annexure XXVI
xxi.	Any other conditions that the Ministry of Environment, Forests & Climate Change may impose from time to time in the interest of afforestation, conservation and management of flora and fauna in the area shall be complied by the user agency.	OPTCL has furnished an undertaking that as per the condition of MoEF&CC in the interest of Afforestation, Conservation & management of Flora & Fauna in the area adjoining to its project shall be duly taken care, which is enclosed as Annexure XXVII
xxii.	The State Govt. and user agency shall ensure compliance to provisions of the all Acts, Rules, Regulations, Guidelines, NGT Order (s) & Hon'ble Court Order(s) pertaining to this project, if any, for the time being in force, as applicable to the project.	OPTCL has furnished an undertaking that they shall comply to the provisions of all Acts, Rules, Regulations, Guideline, NGT Order(s) pertaining to its project if any for time being in force as applicable to this project, which is enclosed as Annexure XXVIII
xxiii.	Violation of any of these conditions will amount to violation of Van (Sanrakshan Evam Samvardhan) Adhinyam, 1980 and action would be taken as prescribed in Para1.16 of Chapter 1 of Consolidated Guidelines and Clarification issued under Van (Sanrakshan Evam Samvardhan) Adhinyam, 1980 and Van (Sanrakshan Evam Samvardhan) Rules, 2023 vide Ministry's letter dated 29.12.2023.	OPTCL has furnished an undertaking that, they shall not commit any violation of the conditions in Stage I Order, which is enclosed as Annexure XXIX


 Deputy General Manager(Elect.)
 E.H.T.(Const) Division
 OPTCL,Keonjhar



OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION
Phone No- 06766-254315, email ID- dfo.keonjhar@odisha.gov.in

Letter No. 4327 /6F-Mining-80/2021
Dated, Keonjhar the 29th May, 2024

To

The Deputy General Manager, (Elect.),
EHT (Cons.) Division, OPTCL,
Keonjhar, At:Baladevjew Colony, Lane-8,
Jagannathpur, Keonjhar-758001, Odisha.

Sub: Proposal for diversion of 8.435 ha of forest land for construction of 220 KV/DC Transmission line from 400/200 KV PGCIL Grid-Sub Station, Keonjhar to 220/132/33 KV Grid Sub-Station at Turumunga.

X-Sub: Demand of funds towards NPV over 8.435 ha forest land proposed for diversion.

Ref: 1. Letter No.5-ORC576/2023-BHU dated 14.03.2024 of MoEF&CC, IRO, Bhubaneswar.
2. This office letter No.2703 dated 28.03.2024.

Sir

With reference to the aforementioned letters on the captioned subject, this is to intimate that, in complying to the condition No.2.A (i) you are requested to deposit Rs. **94,21,052.00/- (Rupees ninety four lakh twenty-one thousand fifty-two)** only towards Net Present Value (NPV) over 8.435 ha forest land proposed for diversion in Orissa CAMPA Account through e-portal of MoEF&CC, GoI as provided in the <https://parivesh.nic.in/> and the proof/evidence of the deposit of fund be submitted to this office for further necessary action at this end.

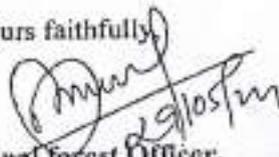
The details of calculation of NPV is furnished as below:-

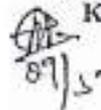
Sl. No.	Condition No. of Stage-I approval dated 14.03.2024	Particulars of NPV	Amount of NPV due as per guideline dated 22.03.2022 (@ Rs.11,16,900/- per ha)
1.	2.A.(i)	Over an area of 8.435 ha forest land proposed for diversion. - Eco Value Class-I, Canopy density is 0.3. The prevailing vegetation comes under the forest type 5B/C1c- dry Peninsular Sal Forest	94,21,052.00
Grand Total			94,21,052.00

(Rupees ninety four lakh twenty-one thousand fifty-two) only.

The previous demand letter No.2703 dated 28.03.2024 is hereby canceled.

Yours faithfully,

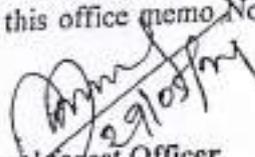

Divisional Forest Officer,
Keonjhar Division.


8/1/24

PTO

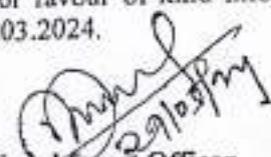
Memo No. 4328 /Dated 29.05.2024

Copy submitted to the Regional Chief Conservator of Forests, Rourkela Circle, Rourkela for favour of kind information and necessary action with reference to this office memo No.2704 dated 28.03.2024.


29/5/24
Divisional forest Officer,
Keonjhar Division.

Memo No. 4329 /Dated 29.05.2024

Copy submitted to the Principal Chief Conservator of Forests, FD & NO, FC Act, O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar for favour of kind information and necessary action with reference to this office memo No.2705 dated 28.03.2024.


29/5/24
Divisional forest Officer,
Keonjhar Division.

Form No. 100

NEFT/RTGS Challan Form

Date: 28/07/2024

Agency Name	INDIAN RAILWAY TRANSPORTATION (INDIAN RAILWAYS)
Application No.	1415/17/0011
NEFT/RTGS No.	5-00000000000000000000
Location	INDIA
Address	The Deputy General Manager (Const.) EHT (Construction) Division Q/TEC, Road No. 45, Baldwin Chowk, Lane No. 6, Jangpalkher, P.O. Bengaluru-560027
Account No.	04200000000000000000

Amount in Words: Money Four Lakh Thirty Six Thousand Eight Hundred and Sixty Nine Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name	GRISA CAMPA
IFSC Code	UBIN086138
Pay to Account No.	10000110170710 Valid only for this challan amount.
Bank Name & Address	Union Bank of India FCB Centre, 2nd, 3rd Floor Janta Tower, Station Road, Bangalore-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through the above after 7 working days, then kindly mail a copy of it to Email: fcshq@unionbankofindia.bank, spurse@unionbankofindia.bank


Manager (F)
EHT (Const.) Circle
Jajpur Road





OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION
Phone No- 06766-254315, email ID- dfo.keonjhar@odisha.gov.in

Letter No. 4330 /6F-Mining-80/2021
Dated, Keonjhar the 29th May, 2024

To

The Deputy General Manager, (Elect.),
EHT (Cons.) Division, OPTCL,
Keonjhar, At: Baladevjew Colony, Lane-8,
Jagannathpur, Keonjhar-758001, Odisha.

Sub: Proposal for diversion of 8.435 ha of forest land for construction of 220 KV/DC Transmission line from 400/200 KV PGCIL Grid-Sub Station, Keonjhar to 220/132/33 KV Grid Sub-Station at Turumunga.

X-Sub: Demand of funds towards Penal NPV (five (5) times of the area used for non-forestry activities in violation to FC Act, 1980 over 0.00275 ha forest land.

Ref: 1. Letter No.5-ORC576/2023-BHU dated 14.03.2024 of MoEF&CC, IRO, Bhubaneswar.
2. This office letter No.2703 dated 28.03.2024.

Sir

With reference to the aforementioned letters on the captioned subject, this is to intimate that, in complying to the condition No.2.A (ii) you are requested to deposit **Rs.15,818/- (Rupees fifteen thousand eight hundred eighteen) only** towards Penal NPV (five (5) times of the area used for non-forestry activities in violation to FC Act, 1980 i.e over 0.00275 ha + 12% intrest for 3 months) forest land in Orissa CAMPA Account through e-portal of MoEF&CC, Gol as provided in the <https://parivesh.nic.in/> and the proof/evidence of the deposit of fund be-submitted to this office for further necessary action at this end.

The details of calculation of Penal NPV is furnished as below:-

Sl. No.	Condition No. of Stage-I approval dated 14.03.2024	Particulars of Penal NPV	Rate of NPV applicable as per guideline dated 22.03.2022 (@ Rs.11,16,900/- per ha)
1.	2.A.(ii)	Penal NPV (five (5) times of the area used for non-forestry activities in violation to FC Act, 1980 over 0.00275 ha forest land i.e. (@ Rs.11,16,900/- x 0.00275 x 5) = 15,357.37 paise or say Rs.15,357.00 12% intrest for 3 months = Rs.15,357/- x 12%/12 x 3 = Rs.460.71/- or Rs.461/- Total amount (Rs.15,357.00+Rs.461.00) = Rs.15,818/-	15,818.00
Grand Total			Rs.15,818.00

(Rupees fifteen thousand eight hundred eighteen) only.

The previous demand letter No.2703 dated 28.03.2024 is hereby canceled

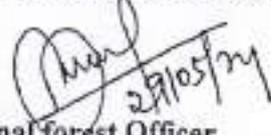
Yours faithfully,

[Signature]
Divisional Forest Officer,
Keonjhar Division.

PTO

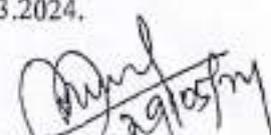
Memo No. 4331 /Dated 29.05.2024

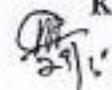
Copy submitted to the Regional Chief Conservator of Forests, Rourkela Circle, Rourkela for favour of kind information and necessary action with reference to this office memo No.2704 dated 28.03.2024.


29/05/24
Divisional forest Officer,
Keonjhar Division.

Memo No. 4332 /Dated 29.05.2024 29/5

Copy submitted to the Principal Chief Conservator of Forests, FD & NO, FC Act, O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar for favour of kind information and necessary action with reference to this office memo No.2705 dated 28.03.2024.


29/05/24
Divisional forest Officer,
Keonjhar Division.


29/5



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଡ.
ODISHA POWER TRANSMISSION CORPORATION LIMITED

(A Government of Odisha Undertaking)
 OFFICE OF THE DEPUTY GENERAL MANAGER (ELECTRICAL),
 EHT (CONSTRUCTION) DIVISION, KEONJHAR.
 At- Lane No. 8, Baldevjew Colony, Jagannathpur, Keonjhar – 758001.
 Telephone: (06766) 254364, Email: ehtc.div.knj@optcl.co.in

Letter No.-420(6)

Date:01.08.2024

To

The Divisional Forest Officer,
 Keonjhar Forest Division, Keonjhar

Sub.: Deposit of payment towards cost of NPV & Penal NPV in lieu of diversion of 8.435Ha. of forest land for Construction of 220KV D/C transmission line from 400/220KV PGCIL Grid Sub-Station, Keonjhar to 220/132/33KV Grid Sub-Station, Turumunga.

Ref. – (i) Your Good Office Letter No. 4327, Dt.29.05.2024 & Letter No. 4330, Dt.29.05.2024.

Sir,

With reference to subject captioned above & letter under reference (i), it is to intimate that a sum of Rs. **94,36,870.00** (Rupees Ninety Four Lakh Thirty Six Thousand Eight Hundred Seventy) only towards the following demands raised by your goodself has been remitted in favour of **CAMPA ORISSA**, A/c. No. **1508264153797012**, IFSC Code: **UBIN0996335** through RTGS (Transaction Id- **S35207758**, PIF No. **1508264153797012**) on Dt.25.07.2024 (copy enclosed).

<u>Funds Demand Details:</u>	
i.	NPV : Rs.94,21,052.00
ii.	Penal NPV : Rs. 15,818.00
Total : Rs.94,36,870.00	

This is for favour of kind information & necessary action.

Yours faithfully,



Deputy General Manager (Elect.)
 E.H.T (Const.) Division, OPTCL, Keonjhar.

Encl. As above.

C.C.

1. The Regional Chief Conservator of Forests, Rourkela Circle, Rourkela for favour of kind information.
2. The Principal Chief Conservator of Forests, FD & NO,FC Act, O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar for favour of kind information.
3. The ED, Northern Zone, OPTCL, Balasore for favour of kind information.
4. The GM (Ele.), EHT (Const.) Circle, OPTCL, Jajpur Road for favour of kind information.
5. ~~M/s. Center for Envtel. & Management Consultancy Pvt. Ltd.~~ Bhubaneswar for information & necessary action.

AGENCY COPY

NEFT/RTGS CHALLAN for CAMPA Funds

Date: 20.08.2024

Agency Name:	ODISHA POWER TRANSMISSION CORPORATION (LIMITED)
Application No:	04153797615
NEFT/RTGS File No:	S-ORCS76(2023)-BHU
Location:	ORRISA
Address:	The Deputy General Manager (Elect), EHT (Construction) Division, OPTCL, Keonjhar, At- Baldevjow Colony, Lane No.-3, Jagannathpur, P.O. KeonjharKeonjhar
Amount(In Rs)	30302450/-

Amount in Words: Three Crore Three Lakh Two Thousand Four Hundred and Fifty Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	ORRISA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1508264153797615 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-550027

This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through chx even after 7 working days, then kindly mail a copy of id to Email: fcsblr@unionbankofindia.bank, epurse@ubin09037110@unionbankofindia.bank



20/8/24
Manager (F)
EHT (Const.) Circle
Jajpur Road

355609778

SCHEME

**FOR PLANTATION OF 100 NOS PLANT
OVER 0.08 HA @1600 SEEDLINGS/ HA OF
DEGRADED FOREST LAND @ RS.450/-
PER MANDAYS IDENTIFIED IN BELDA RF
UNDER KEONJHAR RANGE OF KEONJHAR
FOREST DIVISION**

In compliance

To

**Condition No.2A III of Stage-I Forest
Clearance Granted**

**Vide letter No.5-ORC576/2023-BHU dated
14.03.2024**

**Of Govt. Of India, Ministry of Environment
and Forests,**

IRO, Bhubaneswar

for

**Diversion of 8.435 ha of forest land for
Construction of 220 KV/DC transmission
line at Turumunga, Keonjhar by OPTCL,
Keonjhar.**

CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Odisha Power Transmission Corporation Limited (OPTCL), one of the largest Transmission Utility in the country was incorporated in March 2004 under the Companies Act, 1956 as a company wholly owned by the Government of Odisha to undertake the business of transmission and wheeling of electricity in the State. The registered office of the Company is situated at Bhubaneswar, the capital of the State of Odisha. Its projects and field units are spread all over the State.

OPTCL became fully operational with effect from 9th June 2005 consequent upon issue of Odisha Electricity Reform (Transfer of Transmission and Related Activities) Scheme, 2005 under the provisions of Electricity Act, 2003 and the Odisha Reforms Act, 1995 by the State Government for transfer and vesting of transmission related activities of GRIDCO with OPTCL. The Company has been designated as the State Transmission Utility in terms of Section 39 of the Electricity Act, 2003. Notified as the State Transmission Utility (STU) by the State Govt. and discharges the State Load Dispatch functions.

OPTCL, proposed to construct a 220KV (DC) Transmission line, from 400/200 KV PGCIL Grid Sub-Station (GSS) at Keonjhar located with the latitude 21°43'25.34" (North) & longitude 85°43'47.588" (East) and the line has been connected with the newly constructed grid sub-station at Turumunga, in Keonjhar district located with the latitude 21°36'19.991" (North) & longitude 85°39'26.064" (East) in Odisha over a distance of about 17.131Km. Preliminary survey has been carried out in three alternative Lines (Line-1, 2 & 3).

OPTCL has authorized the DGM-EHT(C) Division, Keonjhar, to sign the necessary documents and submit the forest diversion proposal of OPTCL pertaining to EHT(C) division, Keonjhar.

The proposed forest land of 8.435 Ha. is to be diverted has been coming under Keonjhar Forest Division. The proposed Transmission line covers an area of 60.419Ha. of land covering Forest land of 8.435 Ha. out of which 4.092 Ha. of Forest land in Naranpur RF & 4.343 Ha. of Revenue Forest land and Non-Forest land of 51.984 Ha. The non-forest land covers Govt. Land of 14.894 Ha. & 37.090 Ha. of Private Land in Sadar& Patna Tahasil of Keonjhar district.

As per the condition No. 2A(III) of the Stage-I approval, the user agency shall transfer the cost of plantation of 100 nos. of plants (including 10 year maintenance) at the current wage rate in consultation with the State Forest Department in the account of CAMPA of the concern State through online portal.

Accordingly this Scheme is prepared to comply the above condition. The present scheme aims at preparation of a site-specific 100 nos. i.e. over 0.08 ha of degraded forest land identified in Belda RF under Keonjhar Range of Keonjhar Division prepared at the prevailing wage rate @Rs. 450.00 per man days (As per onetime cost norm provided by the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated 08.11.2021 on Base Norm for the year 2024-25) with maintenance period of 10 (ten) years under AR Model @1600 plants per ha.

CHAPTER- II

DETAILS OF LAND IDENTIFIED FOR PENAL COMPENSATORY AFFORESTATION

IDENTIFICATION OF DEGRADED FOREST LAND

II(1)- Details of identified Forest land-

The identified Forest land for planting of 100 trees as Penal Compensatory Afforestation is situated in Belda RF of Keonjhar Range in Keonjhar Forest Division.

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 Sol Topo Sheet. The vegetation consists of Sal and its scattered associates like Jamu, Piasal, Asana, Sisoo, Kuruma, Karada, Dhaura, Khair, Sidha, Harida, Bahada and Ainla.

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

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

1. 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.
2. Improvement of the micro-climate and micro-edaphic conditions through soil and moisture conservation measures.
3. Encouragement of natural regeneration for increasing the biodiversity in forest crop.
4. Fulfillment of the bonafide needs of the local inhabitants for fuel wood, small timber, fodder and N.T.F.P. to the extent possible depending upon the productivity of the forests to ensure their participation.

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

The identified site in Belda 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 AR plantation model @1600 seedling per ha for 0.08 ha. The average maximum temperature is 40^o to 45^oC and minimum 5^o to 10^o 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 identified site is situated in Belda RF of Keonjhar Range. The site has been demarcated with 4 feet RCC pillars with erection of durable signboard depicting Scheme, Year, User Agency, Area etc. on it.

CHAPTER-III

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

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

The area has been demarcated through GPS survey and GPS 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 Penal Compensatory Afforestation land was processed using DSS for analysis of Forest cover over the area. The result obtained are depicted in the **Annexure- I**.

Decision Support System of degraded Forest land identified in Belda RF of Keonjhar Range

Name of the site	Area identified for plantation (in ha)	MDF (in Sq. Miles)	Non-Forest (in Sq. Miles)	Open Forest (in Sq. Miles)
Belda RF under Keonjhar Range	0.08	0.0	0.01	0.00

CHAPTER- IV

AGENCY RESPONSIBLE FOR PENAL COMPENSATORY AFFORESTATION

IV(1)- AGENCY RESPONSIBLE FOR PLACEMENT OF FUNDS

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

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

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

CHAPTER- V

DETAILS OF WORK SCHEDULE PROPOSED FOR PENAL COMPENSATORY AFFORESTATION

A. PLANTING PLAN

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

Species to be planted: -

1. *Syzgium cumini* (Jamu)
2. *Adina cardifolia* (Kuruma)
3. *Anogeissus latifolia* (Dhaura)
4. *Pongamia pinnata* (Karanja)
5. *Emblica officinalis* (Amla)
6. *Artocarpus integrifolia* (Panasa)
7. *Mangifera indica* (Mango)
8. *Terminalia belerica* (Bahada)
9. *Terminalia chebula* (Harida)
10. *Madhuca indica* (Mahula)
11. *Schleichera oleosa* (Kusum)
12. *Borassus flabellifer* (Tala) on boundary of each plot

B.PRE-PLANTING OPERATION

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

Nursery will be raised @ 110 seedlings including seedlings for 10% causality replacement for 0.08 ha.

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, Keonjhar Range) with GPS coordinates, forward and backward bearing, pillar No. and distance between pillars inscribed in it. A GPS map in the scale of 1:4000 has been prepared along with GPS co-ordinates, forward & backward bearing, 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 45 cm x 45 cm x 45 cm. will be dug @1600 per ha. in the available gaps preferably 2 months before or at least a month before planting of seedlings.

C. PLANTING OPERATION

Planting of seedlings will be taken up in the month of July. The polythene {(size 12 x 10) (300 gauge)} 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 heel as a final step so that there is a proper bond between the ball and the surrounding soil. The earth close to the collar will be slightly elevated so that rain water does not accumulate very close to the plant.

D. POST PLANTING OPERATION

D(1)-CASUALTY REPLACEMENT

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

D(2)-WEEDING AND SOIL WORKING

Regular and efficient weeding will start immediately after sprouting of the 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, the minerals required and dosage @ 50 grammes of patent mixtures like 'Gromor' or N.P.K. (2:2:1) will be applied in two split doses one in August and the other in September.

D(4)-WATERING TO THE SEEDLINGS

There is no provision for watering to the plants, as there is a Compensatory Afforestation site having the drip irrigation facility is existed near this site.

D(5)-SOIL MOISTURE CONSERVATION MEASURES

Special Soil Moisture Conservation Measures will be taken up through construction of LBCD structures of dimension 10' x 10' x 5' to the tune over 0.08 ha the entire plantation site (As per base norm of Matrix for the year 2024-25).

D(6)-PROTECTION AGAINST FIRE AND BIOTIC INTERFERENCE

As there is huge by the pressure from wild boar and elephant, mere bamboo twig fencing will be ineffective in protecting in the plantation. Further protected the planting site from grazing by the domestic animals by the Chain link fencing around the plantation site over the length of 110 rmt is required. However, it will be ensure that the aforesaid chain link fencing will not affect/ obstruct the natural pathway of the Elephants, as echoed in recent guidelines issued vide memo No.6041 dated 14.03.2024 of the Principal Chief Conservator of Forests, Forest Diversion and Nodal Officer, FC Act, O/o the PCCF & HoFF, Odisha, Bhubaneswar .

So, Chain link fencing is imperative for survival of said Compensatory Afforestation plantation. It will be win-win situation for both Compensatory Afforestation planation and elephant conservation in long term.

CHAPTER- VI

COST STRUCTURE OF PLANTATION, PROVISION OF FUNDS AND UTILIZATION

Base Cost Norm for AR Plantation @1600 seedlings per ha (18 months old seedlings)
@Rs.450.00/- Mandays as per revised wage rate by Labour Commissioner, Odisha,
Bhubaneswar vide Notification No. 2278/LESI dated 13.03.2024. Onetime cost norm provided
by the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated 08.11.2021.

Sl. No	Items of work	Perforable 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 (Advance work) Per- Plantation Operation						
1	Survey, Demarcation and Pillar posting	Nov/Dec	2	900	0	900
2	Preparation of Treatment Map (Digital Map)	Nov/Dec	1	450	100	550
3	Site preparation (Cleaning & removal of dehrises)	Nov/Dec	12	5400	0	5400
4	Creation of 4.00 mt wide Inspection Path	Feb/Mar	1	450	0	450
5	Allgnment and stacking of pits	Feb/Mar	2	900	0	900
6	Digging of pits (45 cm x 45 cm x 45 cm) in hard and gravelly soil	Feb/Mar	64	28800	0	28800
7	Construction of Temporary labour Shed, Drinking water facility and First-Aid etc.	Jan/Mar	0	0	3500	3500
	Total		82	36900	3600	40500
1st Year /Plantation Year						
1	Refilling of pits by altering the dugout soil of the pits, application of organic compounds/ CDM/FYM & mixing the same properly.	Jun/Jul	12	5400	8000	13400
2	Transpotation of 18 months old polythin bag seedlings in hired truck /tractor from the Permanent /Mega nursery to planting site including loading & unloading. (Average load of 10 Rkm) & stucking the seedling @ Rs. 6/- per Seedling.(1760 nos.)	Jul/Aug	0	0	10560	10560
3	Watering polypot seedlings at planting site.	Jul/Aug	3	1350	0	1350
4	Conveyance of polypot seedling on head load from the stacking site to individual dugout pits within the planting site, applying insecticide, fertilizers 7 planting after scoping the soil with other applied materials & pressing the soil perfectly around the planted seedlings.	Jul/Aug	36	16200	0	16200
5	<u>Cost of Fertilizer & Insecticide</u> (a) NPK/Bin-fertilizer @ 50 gms/plant as hasal dose=80kg@ Rs.30/-per kg= Rs. 2400.00	Jul/Aug	0	0	4800	4800

	(b) Urea/Vermicompost/Mo Khata/any other fertilizer in two subsequent dose @ Rs. 1200.00 ©Insecticide/ Bio-pesticide @ 5 gms/plant=8 kg @ Rs.15/- per kg=Rs. 1200.00					
6	Casualty Replacement @ 10 % (160 nos)	Jul/Aug	4	1800	0	1800
7	1st weeding & Manuring	Aug/Sep	15	6750	0	6750
8	2nd Weeding , Soil working (1 mt. diameter around the plants) & Manuring	Oct/Nov	20	9000	0	9000
9	Fire line tracing (2 m. wide fire line over 400m long) including maintenance of inspection path.	Feb/Mar	3	1350	0	1350
10	Watch & Ward including watering as per requirement	Aug/Mar	12	5400	0	5400
	Total		105	47250	23360	70610
2nd Year Maintenance						
1	Transportation of 160 seedlings from Nursery to plantation site Including loading, unloading & conveyance by Tractor @ Rs. 6/- per seedling	Jul	0	0	960	960
2	Casualty replacement-10%	Jul	4	1800	0	1800
3	<u>Cost of Fertilizer & Insecticide</u> (a) Cost of Insecticide/ Bio-pesticide @ gms/ plant=0.8 kg @ Rs.150/- per kg=Rs.120/- (b) Urea/NPK/Bio-fertilizer/Vermicompost/Mo Khata/any other fertilizer@ Rs. 4486/-	Jul/Aug	0	0	4606	4606
4	Weeding (Complete weeding), manuring & Soil working, (1 m. diameter around the plants)	Sep/Oct	20	9000	0	9000
5	Fire line tracing (2 m. wide fire line over 400m long) including maintenance of inspection path.	Feb/Mar	3	1350	0	1350
6	Watch & Ward including watering as per requirement	April/Mar	18	8100	0	8100
7	Maintenance of Temporary Labour Shed, Drinking water facility and Fist Aid etc.	April/Mar		0	1000	1000
	Total		45	20250	6566	26816
3rd Year Maintenance						
1	Cost of fertilizer(Urea/NPK/Bio-fertilizer/Vermicompost/Mo Khata/any other fertilizer	Jul/Aug	0	0	4486	4486
2	Weeding (Complete weeding), Manuring & Soil working, (1 m. diameter around the plants)	Sep/Oct	20	9000	0	9000
3	Fire line tracing (2 m. wide fire line over 400m long) including maintenance of inspection path.	Feb/Mar	3	1350	0	1350

4	Watch & Ward including watering as per requirement	April/Mar	18	8100	0	8100
5	Maintenance of Temporary Labour Shed, Drinking water facility and Fist Aid etc.	April/Mar	0	0	1000	1000
Total			18	8100	1000	9100
4th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m long) including maintenance of inspection path.	Feb/Mar	3	1350	0	1350
2	Watch & Ward including maintenance of vegetative fencing	April/Mar	18	8100	0	8100
Total			21	9450	0	9450
5th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m length)	Feb/Mar	3	1350	0	1350
2	Watch & Ward	April/Mar	18	8100	0	8100
Total			21	9450	0	9450
6th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m length)	Feb/Mar	3	1350	0	1350
2	Pruning of branches, Sigling out of multiple shots	Jan/Mar	5	2250	0	2250
3	Watch & Ward	April/Mar	18	8100	0	8100
Total			26	11700	0	11700
7th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m length)	Feb/Mar	3	1350	0	1350
2	Watch & Ward	April/Mar	18	8100	0	8100
Total			21	9450	0	9450
8th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m length)	Feb/Mar	3	1350	0	1350
2	Watch & Ward	April/Mar	18	8100	0	8100
Total			21	9450	0	9450
9th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m length)	Feb/Mar	3	1350	0	1350
2	Watch & Ward	April/Mar	18	8100	0	8100
Total			21	9450	0	9450
10th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m length)	Feb/Mar	3	1350	0	1350
2	Watch & Ward	April/Mar	18	8100	0	8100
Total			21	9450	0	9450

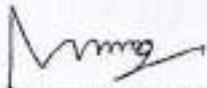
Sl. No	Year	No. of Mandays	Labour cost (In Rs)	Material Cost(In Rs.)	Monitoring, Evaluation, Learoing, Documentation and Other Contingency (5%) of (4+5)	Cost of Seedings @ Rs. 67.62 per seedlings	Total Cost (In Rs.)
1	2	3	4	5	6	7	8
1	0th year	82	36900	3600	2025	0	42525
2	1st year	105	47250	23360	3530.5	108192.0	182332.5
3	2nd year	45	20250	6566	1340.8	10819.2	38976
4	3rd year	41	18450	5486	1196.8	0	25132.8
5	4th year	21	9450	0	472.5	0	9922.5
6	5th year	21	9450	0	472.5	0	9922.5
7	6th year	26	11700	0	585	0	12285
8	7th year	21	9450	0	472.5	0	9922.5
9	8th year	21	9450	0	472.5	0	9922.5
10	9th year	21	9450	0	472.5	0	9922.5
11	10th year	21	9450	0	472.5	0	9922.5
	Total	425	191250	39012	11513.1	119011	360786

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

Annexure-11			
Cost Norms for creation of Compensatory Afforestation with Stabilization of Soil & Conservation of Moisture (1000)			
WAGE RATE Rs. 211/- PER DAY			
Sl.No	Item of Works	Preferable Period of Execution	Total Cost
0th Year (Pre-Planting Operation)			
1	Nil		0
1st Year			
2	Soil Conservation measure structures like Staggered Trench, Percolation pit, Contour trench, Graded earthen bund, LECU, Wire mesh LECU, Sub surface Dyke & WIS as per the slope & site requirement as IS	Apr/Sept.	20,215
2nd Year			
3	Maintenance of SMC structures @ 10 % of initial year cost	Apr/Jul	3,032
3rd Year			
4	Maintenance of SMC structures @ 15 % of initial year cost	Apr/Jul	3,032
4th Year			
5	Maintenance of SMC structures @ 15 % of initial year cost	Apr/Jul	3,032
5th Year			
6	Maintenance of SMC structures @ 15 % of initial year cost	Apr/Jul	3,032
Total			22,343.0

Abstract				
Sl. No.	Year	No. person days	Labour cost @ Rs. 211/- per day	Total cost (Rs.)
1	0th year	0.0	0.0	0.0
2	1st year	0.0	0.0	20,215.00
3	2nd year	0.0	0.0	3,032.00
4	3rd year	0.0	0.0	3,032.00
5	4th year	0.0	0.0	3,032.00
6	5th year	0.0	0.0	3,032.00
Total		0.00	0.00	22,343.0

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


 A/CCF (Forest Division & NA, FC Act)

Matrix for (SMC)

Sl. NO.	Commence ment Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	Total Cost
Base Norm		0	20215	3032	3032	3012	3032											In Rupees
1	2021-22	0	21206	3242	3510	3665	3820											35633
2	2021-23		0	22287	3509	3686	3869	4054										37615
3	2023-24			0	23401	3184	3570	4059	4297									39284
4	2024-25				0	24571	3869	4064	4255	4480								41248
5	2025-26					0	25800	4064	4267	4478	4704							43320
6	2026-27						0	27012	4264	4480	4702	4938						45475
7	2027-28							0	28245	4477	4704	4937	5186					47749
8	2028-29								0	29667	4702	4936	5184	5445				50136
9	2029-30									0	31380	4936	5186	5441	5717			52642
10	2030-31										0	32978	5183	5445	5715	6003		55274

Matrix for (SMC)

APCCF (Forest Diversion & N.O, FC Act)

(Signature)

Fencing Model F-II

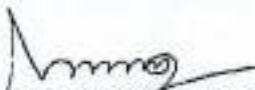
Fencing for Compensatory Plantation raised Forest Areas using Angle Iron & Chain Link Fencing

Fencing Model-F-II						
Fencing for Compensatory Plantation raised outside the Forest Areas using Angle Iron & Chain Link wire mesh (250 Rint/ Ha.)						
WAGE RATE Rs-311/- PER DAY						
Sl No	Items of work	Preferable Period of Execution	Man days	Wages	Material cost (Rs)	Total Cost (Rs. per Ha.)
0th Year (PPO)						
1	Earth work (excavation of trench) of 100' dia size of 400(300) x 100 (400) x 0.40m x 0.40m - 1.00m x 0.40m = 1.376 cum @ Rs. 110/ cum = Rs 151.		2.42	757.62	0.0	752.6
2	Concrete concrete (1:1:4) using 40 mm B/R mesh 100 x 0.40m x 0.40m x 0.10m = 1.344 @ 2755.94/cum		0	0	5,047.4	5,047.4
3	Angle iron pile of size 50 mm x 50 mm x 6 mm of height 2.40 m, 10 x 2.40 = 240.00 Sqm. @ 4.50/kg/ Sqm. = 1080.00 kg @ 9.50 per kg				63,050.0	63,050.0
4	Cost of 2000 (1" x 1/4") bar using the iron angle pile using 12mm B/R Claps 100 x 0.40m x 0.40m x 0.30m = 4.832 cum @ 1486.77/cum				22,123.0	22,123.0
5	Cost of Chain link mesh using 6 mm Dia Galv wire having gap size 50 mm x 50 mm 250 Rint x 2.10 m = 525.00 m @ 131/Sqm = Rs. 1,73,775.				1,73,775.0	1,73,775.0
6	Double end painting of iron angle pile over a coated primer using good quality emulsion paint 100 x 2.10 x 0.20 = 42.00 sqm. @ Rs.10000/Sqm.				3,800.0	3,800.0
7	Painting of 42.00m² iron mesh 250 x 2.10 x 2 = 1050/10 = 105 Sqm. @ Rs. 10000 Sqm.				11,424.0	11,424.0
8	Transportation of Chain link mesh, Iron angle, Steel bar and 2000 galv chain link mesh etc. @ 2% of the total cost.				5,600.0	5,600.0
TOTAL			2.42	757.62	2,84,857.4	2,85,610.0
Rate per running mt. 2,85,610/ 250m Rs. 1142/Rmt						
1st Year Maintenance						
1	No Maintenance required.	Sept./Oct	0	0	0	0
2nd Year Maintenance						
1	2% cost of wire mesh fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
3rd Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
4th Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
5th Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
6th Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
7th Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
8th Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
9th Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
10th Year Maintenance						

Sl. No	Items of work	Preferable Period of Execution	Man days	Wages	Material cost (Rs)	Total Cost (Rs. per Ha.)
1	Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr. 1142x1.5 = 11.12 say Rs. 11	Sept./Oct	0	0	11000	11000

Abstract

Sl. No	Year	No. person days	Labour cost @ Rs. 311/- per day	Material Cost	Total cost (Rs.)
1	0th year	2.42	752.6	284057.4	285010.0
2	1st year	0.0	0.0	0.0	0.0
3	2nd year	0.0	0.0	11000.0	11000.0
4	3rd year	0.0	0.0	11000.0	11000.0
5	4th year	0.0	0.0	11000.0	11000.0
6	5th year	0.0	0.0	11000.0	11000.0
7	6th year	0.0	0.0	11000.0	11000.0
8	7th year	0.0	0.0	11000.0	11000.0
9	8th year	0.0	0.0	11000.0	11000.0
10	9th year	0.0	0.0	11000.0	11000.0
11	10th year	0.0	0.0	11000.0	11000.0
Total:		2.42	752.62	383857.4	3,84,610.0


 APCCF (Forest Diversion & NO, FC Act)

TOTAL COST OF PROJECT

Sl. No	Item of Work	Unit price	In Rupees
1	Cost of AR plantation @1600 plants/ ha over 0.008 ha @ Rs.3,60,786.00 per ha with 10 years maintenance.	3,60,786/- x 0.08 ha	28862.88
2	Cost of Soil Moisture Conservation (SMC) (As per base norm of Matrix for the year 2024-25)	41,248/- x 0.08 ha	3299.84
3	Cost of Angle Iron & Chain Link wire mesh Fencing @4,85,432- per 250 rmt/ha over 0.11 Km. (As per base norm of Matrix for the year 2024-25)	4,85,432/ 250 RMT x 110 RMT	213590.08
	Grand Total		2,45,752.80 Or say 2,45,800.00

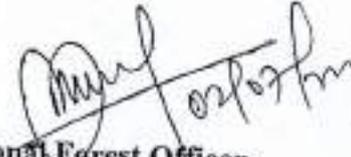
(Rupees two lakh forty-five thousand eight hundred) only

Technically Approved


Regional Chief Conservator of Forests
Rourkela Circle

PROVISION OF FUNDS AND FUND UTILIZATION

Rs. 2,45,800/- (Rupees two lakh forty-five thousand eight hundred) only shall be deposited by the User Agency i.e. OPTCL, Keonjhar. on approval of the scheme to the Ad-hoc CAMPA Account and the funds will be utilized for raising of Penal Compensatory Afforestation by the Divisional Forest Officer, Keonjhar Division on allotment by the Principal Chief Conservator of Forests, Odisha, Bhubaneswar.


Divisional Forest Officer,
Keonjhar Division

CHAPTER- VII

DETAILS OF PROPOSED MONITORING MECHANISM

Penal Compensatory Afforestation will be taken up in the identified site by the Range Officer, Keonjhar Range of Keonjhar Division. The Range Forest Officer, Keonjhar 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, Keonjhar Division. GPS co-ordinates along with other required informations of Penal 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 Keonjhar Range and reported to the Divisional Forest Officer for necessary action. The same thing will be reported to the Regional Chief Conservator of Forests, Rourkela 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,
Keonjhar Division

"DSS ANALYSIS CERTIFICATE"

This is to certify that DSS Analysis of land identified for CA/ ACA/ PCA and subsequent ground truthing have been done. The outcome is as mentioned below-

Sl. No.	Name of Range	Name of the Forest Block (RF/PRF/PF/DPE/Revenue Forest)	Area identified for CA/ ACA/ PCA (in ha)	Classification of identified land (in Sq. KM)						Area suitable for plantation (in Sq. KM)			Plantation model (AR/ANR)	Remarks		
				Very Dense Forest	Moderately Dense Forest	Open Forest	Non-forest	Scrub	Water	Total	Open Forest	Non-forest			Scrub	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Keonjhar	Belda RF	PCA (0.08 ha)	0	0.00	0.00	0.01	0	0	0.08	0.00	0.01	0	0.08	AR	


 Divisional Forest Officer,
 Keonjhar Division.

Countersigned


 Regional Chief Conservator of Forests,
 Rourkela Circle



OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION
Phone No- 06766-254315, email ID- df.o.keonjhar@odisha.gov.in

Memo No 5856 /6P-Mining-80/2021
Dated, Keonjhar the 09th July, 2024

To

The Deputy General Manager (Elect) EHT
Construction Division, OPTCL, Keonjhar,
AT- Baladevjew Colony, Lane No. 8,
Jagannathpur, Keonjhar- 758001.

Sub: Diversion of 8.435 ha of forest land for Construction of 220 KV/DC transmission line at Turumunga, Keonjhar by OPTCL, Keonjhar.

X-Sub: Demand of funds towards plantation of 100 nos plant over 0.08 ha in Belda RF.

Ref: Memo No. 2835 dated 05.07.2024 of Regional Chief Conservator of Forests, Rourkela Circle, Rourkela.

Sir,

With reference to the aforementioned memo on the captioned subject, this is to intimate that the Regional Chief Conservator of Forests, Rourkela Circle, Rourkela has technically approved the Scheme for plantation of 100 nos plant over 0.08 ha of degraded forest land identified in Belda RF under Keonjhar Range prepared at the prevailing wage rate @Rs.450.00 per MD as per onetime cost norm provided by the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated 08.11.2021 (As per base norm of Matrix for the year 2024-25) with a total financial outlay of Rs. 2,45,800/- (Rupees two lakh forty-five thousand eight hundred) only.

Hence, you are requested to deposit the approved amount Rs.2,45,800/- (Rupees two lakh forty-five thousand eight hundred) only towards plantation of 100 nos plant over 0.08 ha of degraded forest land identified in Belda RF under Keonjhar Range of the aforementioned project through e-portal of MoEF&CC as provided in the <https://parivesh.nic.in/> and the proof/evidence of the deposit of fund be submitted to this office for further necessary action at this end.

Yours faithfully,


09/07/24


Divisional Forest Officer,
Keonjhar Division.

Memo No. 5857 /Dated 09.07.2024 6/7

Copy forwarded to the Regional Chief Conservator Forests, Rourkela Circle/
Principal Chief Conservator of Forests, Forest Diversion and Nodal Officer, FC Act, O/o the
PCCF & HoFF, Odisha, Bhubaneswar for favour of kind information and necessary action.


Divisional Forest Officer,
Keonjhar Division.



AGENCY COPY

NEFT/RTGS CHALLAN for CAMPA Funds

Date: 20.08.2024

Agency Name:	ODISHA POWER TRANSMISSION CORPORATION LIMITED
Application No:	64153797615
NEFT/GST de No:	5-ORCS7612023-BHU
Location:	ORRISA
Address:	The Deputy General Manager (Elect.), EHT (Construction) Division, OPTCL, Keonjhar, At: (Balev)ew Colony, Lane No.-8, Jagannathpur, P.O. Keonjhar/Keonjhar
Amount (in Rs):	30302450/-

Amount in Words: Three Crore Three Lakh Two Thousand Four Hundred and Fifty Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	ORRISA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1508264183797615 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jalitta Towers, Mission Road, Bengaluru-560027

* This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through chq even after 7 working days, then kindly mail a copy of id to Email: fcsblr@unionbankofindia.bank , epurse@ubin0903710@unionbankofindia.bank



20/8/24
Manager (P)
EHT (Const.) Circle
Jalour Road

355609778



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲି.ଓ.
ODISHA POWER TRANSMISSION CORPORATION LIMITED

(A Government of Odisha Undertaking)

OFFICE OF THE DEPUTY GENERAL MANAGER (ELECTRICAL),
 EHT (CONSTRUCTION) DIVISION, KEONJHAR.

At- Lane No. 8, Baldevjew Colony, Jagannathpur, Keonjhar – 758001.

Telephone: (06766) 254364, Email: ehtc.div.knj@optcl.co.in

Letter No.-454(6)

Date:22.08.2024

To

The Divisional Forest Officer,
 Keonjhar Forest Division, Keonjhar

Sub.: Deposit of payment towards cost of Site Specific Wild Life Conservation plan, Dwarf plantation & plantation of 100 plants over 0.08Ha in lieu of diversion of 8.435Ha. of forest land for Construction of 220KV D/C transmission line from 400/220KV PGCIL Grid Sub-Station, Keonjhar to 220/132/33KV Grid Sub-Station, Turumunga.

Ref. – 1. Your Good Office Letter No. 5868, Dt.25.07.2024
 2. Your Good Office Letter No. 5354, Dt.09.07.2024
 3. Your Good Office Letter No. 5356, Dt.09.07.2024

Sir,

With reference to subject captioned above & letter under reference 1,2 & 3, it is to intimate that a sum of Rs.3,03,02,450.00 (Rupees Three Crore Three Lakh Two Thousand Four Hundred Fifty) only towards the following demands raised by your good self has been remitted in favour of **CAMPA ORISSA, A/c. No.1508264153797615, IFSC Code: UBIN0996335** through RTGS (Transaction Id- S55609778, PIF No. 1508264153797615) on Dt.21.08.2024 (copy enclosed).

Funds Demand Details:

i.	Site Specific Wild Life plan	: Rs.1,35,76,200.00
ii.	Dwarf plantation.	: Rs.1,64,80,450.00
iii.	plantation of 100 plants over 0.08Ha	: <u>Rs. 2,45,800.00</u>
	Total	: Rs.3,03,02,450.00

This is for favour of kind information & necessary action.

Yours faithfully,

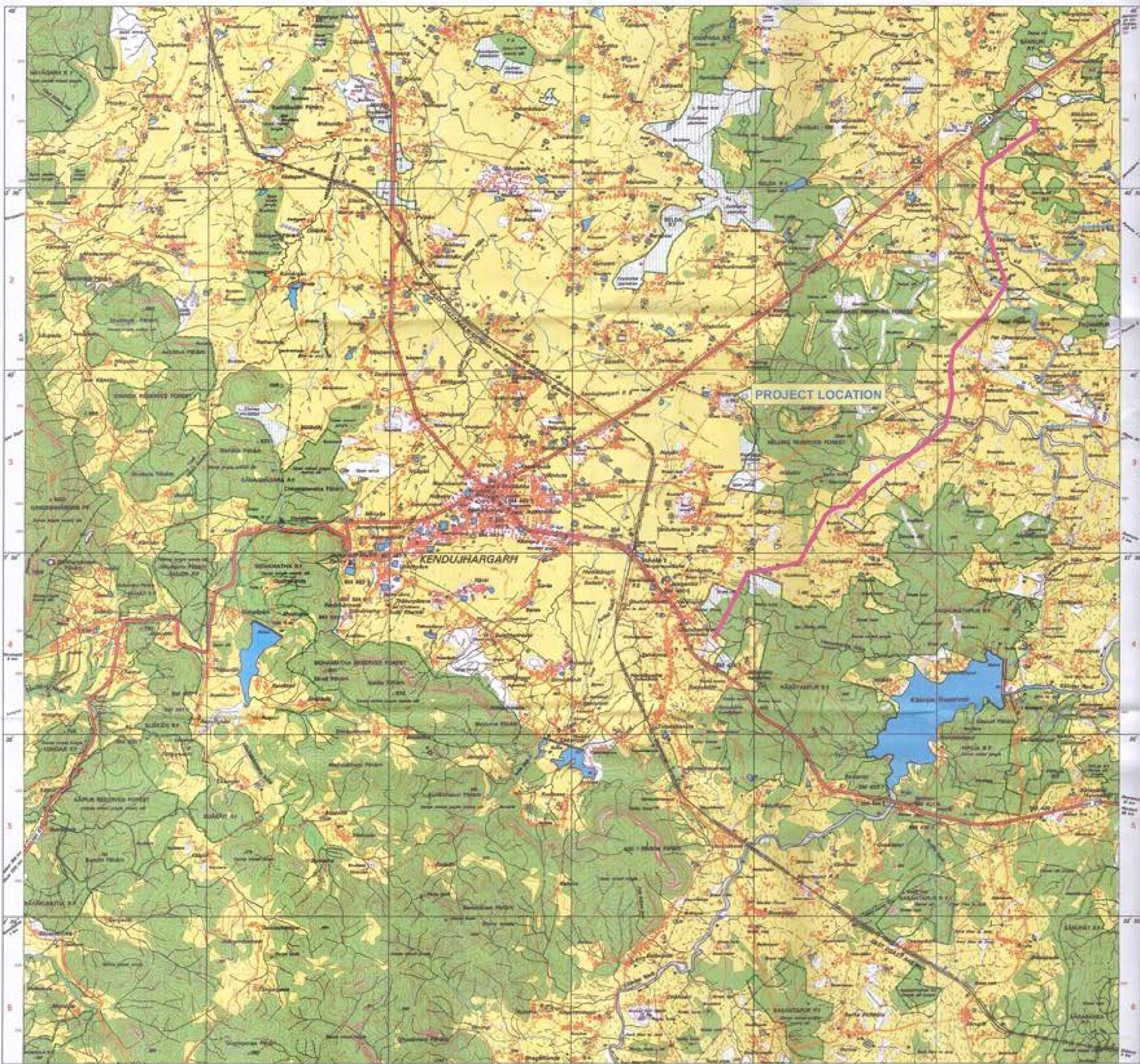
Encl. As above.

Deputy General Manager (Elect.)
 E.H.T (Const.) Division, OPTCL, Keonjhar.

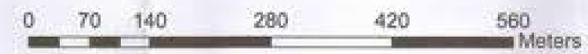
C.C.

1. The Regional Chief Conservator of Forests, Rourkela Circle, Rourkela for favour of kind information.
2. The Principal Chief Conservator of Forests, FD & NO, FC Act, O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar for favour of kind information.
3. The ED, Northern Zone, OPTCL, Balasore for favour of kind information.
4. The GM (Ele.), EHT (Const.) Circle, OPTCL, Jajpur Road for favour of kind information.
5. M/s. Consultancy for Engineering & Environment Planning (CEEP), Bhubaneswar for information & necessary action.

TOPO MAP SHOWING FOREST AREA TO BE DIVERTED FOR CONSTRUCTION OF 220 KV D/C LINE FROM PGCIL 400/200 KV GRID S/S KEONJHAR TO TURUMUNGA OF M/S OPTCL, KEONJHAR COMING UNDER KEONJHAR FOREST DIVISION, KEONJHAR DISTRICT



1:50,000



OPEN SERIES MAP NO. - F45N10

Express highway with toll; with bridge with distance stone			
Roads, metalled according to importance			
Roads, double cartway according to importance			
Unmetalled road, Cart-track, Foot-track and pass, Foot-path			
Streams with track in bed, unbridged, Canal			
Dam: masonry or rock-filled, weirwork, Weir			
River: dry with water channel; with island & rocks, Thal river			
Submerged weir, Sluic, Sluic, Sluic			
Wells: lined, unlined, Tube-well, Spring, Tanks: permanent, dry			
Embankments: road or rail, broken ground			
Railways, broad gauge: double, single with station; under construction			
Railways, other gauges: double, single with station; do			
Miners: iron or haerway, Kib, Cutting with tunnel			
Canyons with sub-features, Rocky slopes, Cliffs			
Fort houses: (the) Guard-hill, Garrisoned, (the) Garrisoned			
Towns or Villages: inhabited, deserted, Fort			
Water permanent, temporary, Tower, Antiquities			
Temples, Chhat, Church, Mosque, Light, Tomb, Grave			
Lighthouses, Lightships, Buoys: lighted, unlighted, Anchorage			
Mills: Wind on water, Iron, Steam			
Palms: palmyra; other: Florida, Coffer, Bamboo, Other trees			
Areas: cultivated, wooded, Surveyed tree			
Boundary, International			
Water demarcated, undemarcated			
Boundary pillars: surveyed, unsurveyed			
Height, triangulation station; point, approximate			
Survey-metric: metric, tertiary, aerial			
Post office, Telegraph office, Overhead tank			
Rail house or inspection bungalow, Circuit house, Police station			
Camping ground, Forest: reserved, protected			
Special names: administrative, locality or tribal			
Hospital, Dispensary, Veterinary, Hospital / Dispensary			
Aerodrome, Helipad, Tourist site			
Power line: with pylons surveyed; with poles unsurveyed			

Legend

LINE CORRIDOR COUNTERSIGNED
 Divisional Forest Officer
 Keonjhar Division

PREPARED BY :-

Centre for Envotech & Management
 Consultancy Pvt. Ltd. Bhubaneswar.



Deputy General Manager (Exec.)
 E.H.T.(Const.) Division
 OPTCL, Keonjhar





OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION
Phone No- 06766-254315, email ID- dfn.keonjhar@odisha.gov.in

Letter No. 8645 /GF-Mining-80/2021
Dated, Keonjhar the 25th October, 2024

To

The Deputy General Manager, (Elect.),
EHT (Cons.) Division, OPTCL,
Keonjhar, At: Baladevjew Colony, Lane-8,
Jagannathpur, Keonjhar-758001, Odisha.

Sub: Proposal for diversion of 8.435 ha of forest land for construction of 220 KV/DC Transmission line from 400/200 KV PGCL Grid-Sub Station, Keonjhar to 220/132/33 KV Grid Sub-Station at Turumunga.

X-Sub: Demand of funds towards approved cost of Compensatory Afforestation Schemes over 18.00 ha Degraded Forest land identified in Ukhunda RF under Champua Forest Range in Keonjhar Forest Division.

Ref: 1. Memo No.21262 dated 23.10.2024 of Chief Conservator of Forests (Nodal), O/o- the PCCF&HoFF, Odisha, Bhubaneswar.
2. Letter No.5-ORC576/2023-BHU dated 14.03.2024 of MoEF&CC, IRO, Bhubaneswar.

Sir

With reference to the aforementioned letters on the captioned subject, this is to intimate that, in complying to the condition No.2.A(vi) of Stage-I approval dated 14.03.2024 of MoEF&CC, IRO, Bhubaneswar the Scheme for raising of Compensatory Afforestation over 8.435 ha degraded forest land identified in Ukhunda RF under Champua Forest Range in Keonjhar Forest Division has been technically approved by the PCCF(FD&NO, FC Act) as per matrix 2024-25 of approved One-time cost norm with a total financial outlay of Rs.1,64,74,700/- (Rupees one crore sixty four lakhs seventy four thousand and seven hundred) only.

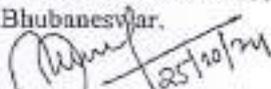
Hence, you are requested to deposit Rs.1,64,74,700/- (Rupees one crore sixty four lakhs seventy four thousand and seven hundred) only in Orissa CAMPA Account through e-portal of MoEF&CC, GoI as provided in the <https://parivesh.nic.in/> and the proof/evidence of the deposit of fund be submitted to this office for further necessary action at this end.

Yours faithfully,


Divisional Forest Officer,
Keonjhar Division.

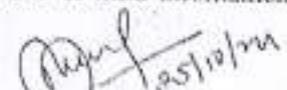
Memo No. 8646 /Dated 25.10.24

Copy submitted to the Regional Chief Conservator of Forests, Rourkela Circle, Rourkela for favour of kind information and necessary action with reference to memo No.21263 dated 23.10.2024 of Chief Conservator of Forests (Nodal), O/o- the PCCF&HoFF, Odisha, Bhubaneswar.


Divisional Forest Officer,
Keonjhar Division.

Memo No. 8647 /Dated 25.10.24

Copy submitted to the Principal Chief Conservator of Forests, FD & NO, FC Act, O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar for favour of kind information and necessary action with reference to his memo No.21262 dated 23.10.2024.


Divisional Forest Officer,
Keonjhar Division.

**REVISED SCHEME FOR COMPENSATORY
AFFORESTATION OVER 18.00 HA OF
DEGRADED FOREST LAND (AS PER
ONETIME COST NORM) IDENTIFIED IN
UKHUNDA RF UNDER CHAMPUA RANGE
OF KEONJHAR FOREST DIVISION**

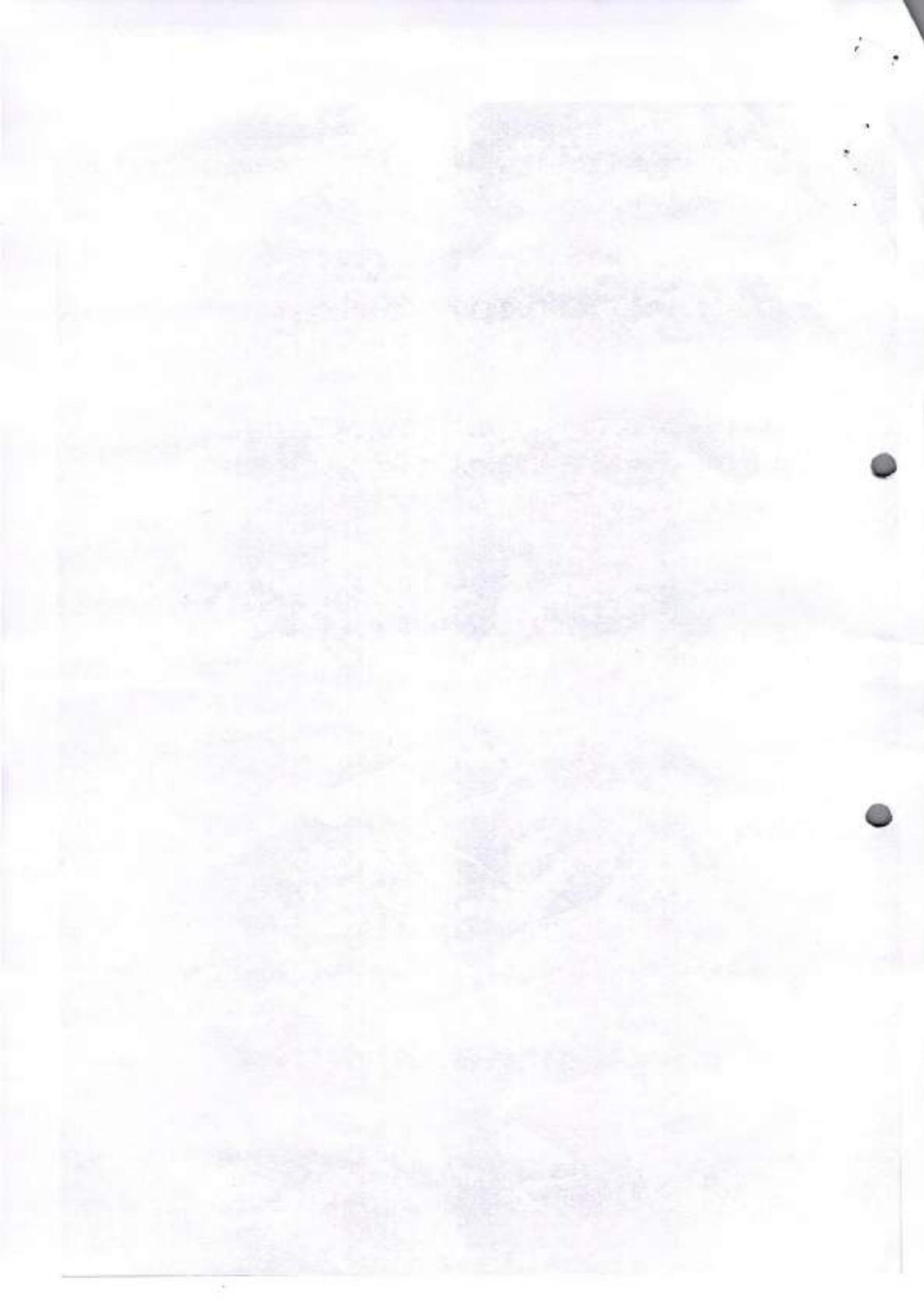
IN RESPECT OF

**CONSTRUCTION OF 220 KV DC
TRANSMISSION LINE FROM 400/200 KV
PGCIL GRID SUBSTATION, KEONJHAR
TO 220/132/33 KV GRID SUBSTATION AT
TURUMUNGA**

OF

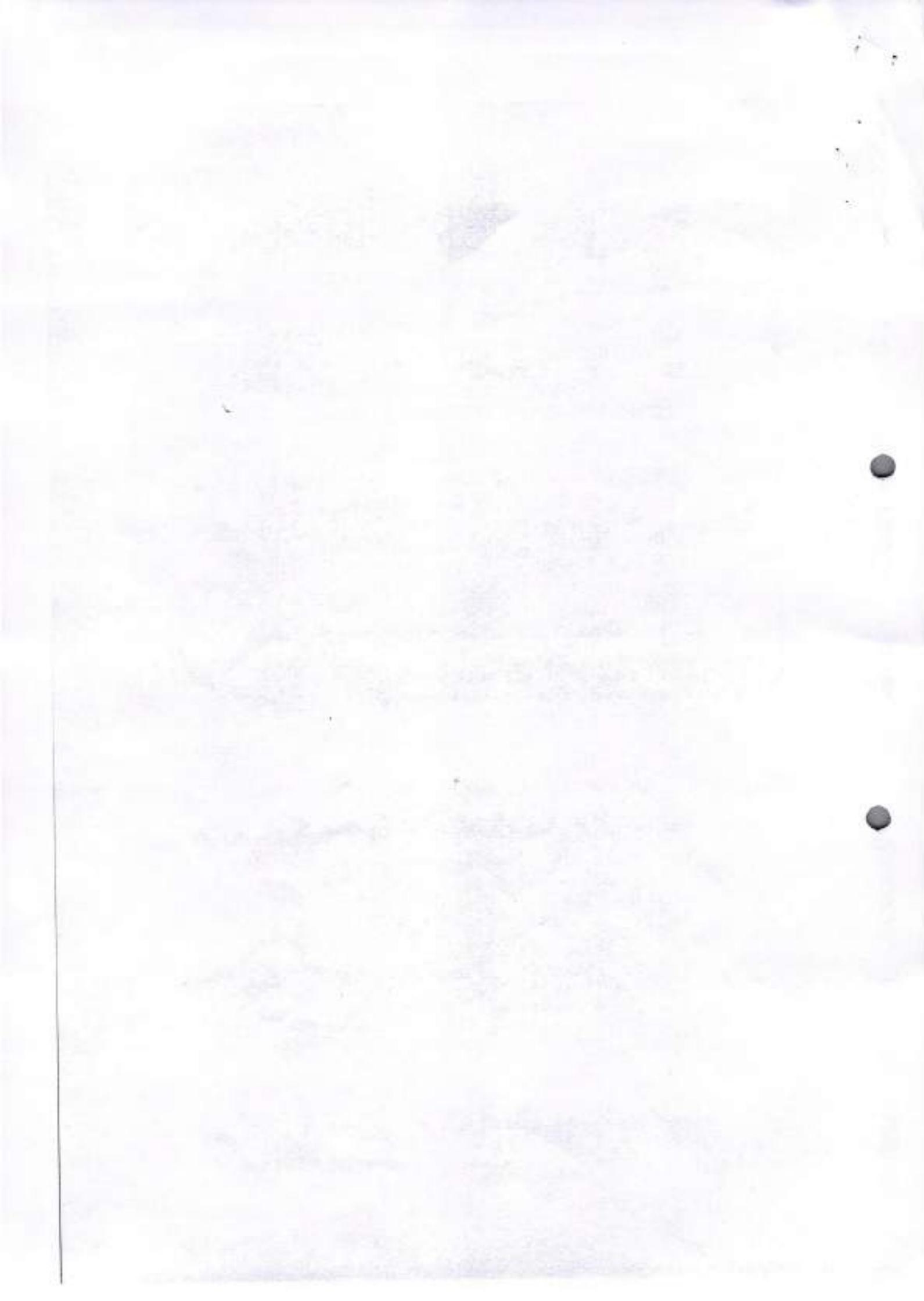
OPTCL, KEONJHAR

{Onetime cost norm provided by the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated
08.11.2021 on Base Norm for the year 2023-24) with maintenance period of 10 (ten) years}



**ELEMENTS OF THE SCHEME FOR COMPENSATORY
AFFORESTATION**

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	01 to 01
II	DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION	02 to 03
III	DELINEATION OF PROPOSED AREA ON SUITABLE MAP	03 to 03
IV	AGENCY RESPONSIBLE FOR COMPENSATORY AFFORESTATION	03 to 03
V	DETAILS OF WORK SCHEDULED PROPOSED FOR COMPENSATORY AFFORESTATION	04 to 05
VI	COST STRUCTURE OF PLANTATION, PROVISION OF FUNDS AND UTILIZATION	06 to 17
VII	DETAILS OF PROPOSED MONITORING MECHANISM	18 to 18



CHAPTER-I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Odisha Power Transmission Corporation Limited (OPTCL), one of the largest Transmission Utility in the country was incorporated in March 2004 under the Companies Act, 1956 as a company wholly owned by the Government of Odisha to undertake the business of transmission and wheeling of electricity in the State. The registered office of the Company is situated at Bhubaneswar, the capital of the State of Odisha. Its projects and field units are spread all over the State.

OPTCL became fully operational with effect from 9th June 2005 consequent upon issue of Odisha Electricity Reform (Transfer of Transmission and Related Activities) Scheme, 2005 under the provisions of Electricity Act, 2003 and the Odisha Reforms Act, 1995 by the State Government for transfer and vesting of transmission related activities of GRIDCO with OPTCL. The Company has been designated as the State Transmission Utility in terms of Section 39 of the Electricity Act, 2003. Notified as the State Transmission Utility (STU) by the State Govt. and discharges the State Load Dispatch functions.

OPTCL, proposed to construct a 220KV (DC) Transmission line, from 400/200 KV PGCIL Grid Sub-Station (GSS) at Keonjhar located with the latitude $21^{\circ}43'25.34''$ (North) & longitude $85^{\circ}43'47.588''$ (East) and the line has been connected with the newly constructed grid sub-station at Turumunga, in Keonjhar district located with the latitude $21^{\circ}36'19.991''$ (North) & longitude $85^{\circ}39'26.064''$ (East) in Odisha over a distance of about 17.131Km. Preliminary survey has been carried out in three alternative Lines (Line-1, 2 & 3).

OPTCL has authorized the DGM-EHT(C) Division, Keonjhar, to sign the necessary documents and submit the forest diversion proposal of OPTCL pertaining to EHT(C) division, Keonjhar.

The proposed forest land of 8.435 Ha. is to be diverted has been coming under Keonjhar Forest Division. The proposed Transmission line covers an area of 60.419Ha. of land covering Forest land of 8.435 Ha. out of which 4.092 Ha. of Forest land in Naranpur RF & 4.343 Ha. of Revenue Forest land and Non-Forest land of 51.984 Ha. The non-forest land covers Govt. Land of 14.894 Ha. & 37.090 Ha. of Private Land in Sadar & Patna Tahasil of Keonjhar district.

The present scheme aims at preparation of a site-specific Compensatory Afforestation scheme over 18.00 ha of degraded forest land identified in Ukhunda RF under Champua Range of Keonjhar Division prepared as per onetime cost norm provided by the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated 08.11.2021 on Base Norm for the year 2024-25) with maintenance period of 10 (ten) years.

CHAPTER- II

DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION

IDENTIFICATION OF DEGRADED FOREST LAND

II(1)- Details of identified Forest land-

The identified Forest land for Compensatory Afforestation is situated in Ukhunda RF over 18.00 ha under Champua Range in Keonjhar Forest Division.

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 Sol Topo Sheet No. F45N14. The vegetation consists of Sal and its scattered associates like Jamu, Piasal, Asana, Sisoo, Kuruma, Karada, Dhaura, Khair, 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-

1. 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.
2. Improvement of the micro-climate and micro-edaphic conditions through soil and moisture conservation measures.
3. Encouragement of natural regeneration for increasing the biodiversity in forest crop.
4. Fulfillment of the bonafide needs of the local inhabitants for fuel wood, small timber, fodder and N.T.F.P. to the extent possible depending upon the productivity of the forests to ensure their participation.

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

The identified site in Ukhunda 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 1000 seedlings/ ha as per field situation for 18.00 ha. The average maximum temperature is 40^o to 45^oC and minimum 5^o to 10^o 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.

CHAPTER-III

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

III(1)- DGPS COORDINATES AND DGPS 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- I.

Decision Support System of degraded Forest land identified in Ukhunda RF under Champua Range

Name of the site	Area identified for plantation (in ha)	Non-Forest (in Sq. Miles)	Open Forest (in Sq. Miles)
Ukhunda RF under Champua Range	18.00	0.07	0.11

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

Species to be planted:-

1. *Syzgium cumini* (Jamu)
2. *Adina cardifolia* (Kuruma)
3. *Anogeissus latifolia* (Dhaura)
4. *Pongamia pinnata* (Karanja)
5. *Embllica officinalis* (Amla)
6. *Artocarpus integrifolia* (Panasa)
7. *Mangifera indica* (Mango)
8. *Terminalia belerica* (Bahada)
9. *Terminalia chebula* (Harida)
10. *Madhuca indica* (Mahula)
11. *Schleichera oleosa* (Kusum)
12. *Borassus flabellifer* (Tala) on boundary of each plot

B.PRE-PLANTING OPERATION

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

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

B(II)- SURVEY, DEMARCATION & PILLAR POSTING, DGPS 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, Champua Range) with DGPS coordinates, forward and backward bearing, pillar No. and distance between pillars inscribed in it. A DGPS map in the scale of 1:4000 has been prepared along with DGPS co-ordinates, forward & backward bearing, 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 45 cm x 45 cm x 45 cm. will be dug @1000 seedlings for 18.00 ha in the preferably 2 months before or at least a month before planting of seedlings.

C. PLANTING OPERATION

Planting of seedlings will be taken up in the month of July. The polythene {(size 12 x 10) (300 gauge)} 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 heel as a final step so that there is a proper bond between the ball and the surrounding soil. The earth close to the collar will be slightly elevated so that rain water does not accumulate very close to the plant.

D. POST PLANTING OPERATION

D(1)-CASUALTY REPLACEMENT

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

D(2)-WEEDING AND SOIL WORKING

Regular and efficient weeding will start immediately after sprouting of the 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, the minerals required and dosage @ 50 grammes of patent mixtures like 'Gromor' or N.P.K. (2:2:1) will be applied in two split doses one in August and the other in September.

D(4)-SOIL MOISTURE CONSERVATION MEASURES

Special Soil Moisture Conservation Measures will be taken up through construction of LBCD structures of dimension 10' x 10' x 5' to the tune of 18 nos.

D(5)-WATERING PROVISION

The entire plantation site and 3 no. borewell will be dug for watering over the plantation site (Five diesel pump set fitted with borewell for 5 ha plantation) with maintenance and recurring expenditure for 5 years.

D(6)-PROTECTION AGAINST FIRE AND BIOTIC INTERFERENCE

It is proposed to protect the plantation from grazing by domestic animals using Fencing Angle Iron & Chain Link wire mesh. The total length of such Fencing Angle Iron & Chain Link wire mesh for the patch which comes to 1.89 Km or 1890 meter. 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 Gandabarej VSS.

CHAPTER- VI

COST STRUCTURE OF PLANTATION, PROVISION OF FUNDS AND UTILIZATION

Base Cost Norm for AR Plantation @1000 seedlings per ha (18 months old seedlings) as per the onetime cost norm provided by the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated 08.11.2021 (As per base norm of Matrix for the year 2024-25)

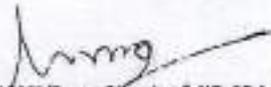
ANNEXURE-4						
BASE COST NORM FOR COMPENSATORY AFFORESTATION (BLOCK PLANTATION) @ 1000 PLANTS PER HECTARE (18 months old seedling)						
WAGE RATE Rs.211/- PER MANDAY						
Sl. No	Items of work	Preferable Period of Execution	No of Mandays	Labour Cost (In Rs.)	Material Cost (In Rs.)	Total cost (In Rs.)
1	2	3	4	5	6	7
0th Year (Advance work) Pre-Planted Operation						
1	Survey, Demarcation and Pillar setting	Nov/Dec	2	622	0	622
2	Preparation of Treatment Plot (Digging/Map)	Nov/Dec	1	211	100	411
3	Site preparation (Clearing & removal of ob/rocks)	Nov/Dec	17	3587	0	3587
4	Construction of 4.00 mt wide Intra-row Path	Feb/Mar	1	211	0	211
5	Wagon rent and stacking of site	Feb/Mar	3	633	0	633
6	Digging of pits (45 cm x 45 cm X 45 cm) in hand and ready soil	Feb/Mar	40	8440	0	8440
7	Construction of Temporary Labour Shed, Drinking water facility and First-Aid etc.	Jan/Mar	0	0	3500	3500
	Total		57	17727	3600	21327
1st Year/Planting Year						
1	Refilling of pits by altering the dugout soil of the pits, application of organic composts/ CIM/ FYM & mixing the same thoroughly.	Jan/Feb	7.5	2352.50	5000	7332.50
2	Transportation of 18 months old polythene bag seedlings on hand truck / tractor from the Nurseries/Block nursery to planting site including loading & unloading. (Average load of 10 km) & stacking the seedling @ Rs.6/- per Seedling @ 100 nos.	Jan/Feb	0	0	6000	6000
3	Working polythene seedlings at planting site	Jan/Feb	2	622	0	622
4	Conveyance of polythene seedlings on hand truck from the stacking site to individual digging pits within the planting site, applying insecticide, fertilizers & plowing after sweeping the soil with other applied materials & pressing the soil preferably around the planted seedlings.	Jan/Feb	22.5	6997.50	0	6997.50
5	Cost of Fertilizer & Insecticide: (a) NPK/Bio-fertilizer @ 50 gram/plant as hand dose = 50kg @ Rs.30/- per kg = Rs. 1500.00 (b) Urea/Vermicompost/Mo. Khata/any other fertilizer in two subsequent doses @ Rs. 750.00 (c) Insecticide/ Bio-pesticide @ 5 gram/plant @ Rs.150/- per kg = Rs. 750.00	Jan/Feb	0	0	2010	2010
6	Casualty Replacement @ 10% (100 nos.)	Jan/Feb	2.5	777.5	0	777.5
7	1st weeding & Mounding	Aug/Sept	12	3732	0	3732
8	2nd Weeding, Soil working (1 mt. diameter around the plants) & Mounding	Oct/Nov	15	4665	0	4665
9	Fire line tracing (2 m. wide fire line over 400 m long) including maintenance of inspection mark	Feb/Mar	3	933	0	933
10	Watch & Ward including watering as per requirement	Aug-Mar	12	3732	0	3732
	Total		76.50	23791.00	14600.00	38391.00
2nd Year Maintenance						
1	Transportation of 100 seedlings from Nursery to plantation site including loading, unloading & conveyance by Tractor @ Rs.6/- per seedling	Jan	0	0	600	600
2	Casualty replacement- 10%	Jan	2.5	777.5	0	777.5
3	Cost of Fertilizer & Insecticide: A) Cost of Insecticide/ Bio-pesticide @ 5 gram/plant = 0.5 kg @ Rs.150/- per kg = Rs.75/- B) Urea/NPK/Bio-Fertilizer/Vermicompost/Mo. Khata/any other fertilizer @Rs. 2000/-	July/Aug	0	0	2875	2875
4	Weeding (Complete weeding), Mounding & soil working (1 mt. diameter around the plants)	Sept/Oct	15	4665	0	4665
5	Fire line tracing (2 m. wide fire line over 400 m long) including maintenance of inspection mark	Feb/Mar	3	933	0	933
6	Watch & Ward including watering as per requirement	Apr-May	18	5598	0	5598
7	Maintenance of Temporary Labour Shed, Drinking water facility and First-Aid etc.	Apr-May	0	0	1000	1000
	Total		38.5	11073.5	4475	16448.5

Sl No	Items of work	Probable Period of Execution	No of Muddays	Labour Cost (In Rs.)	Material Cost (In Rs.)	Total cost (In Rs.)
1	2	3	4	5	6	7
3rd Year Maintenance						
1	Cost of Fertilizer(Urea/NPK/Bio-fertilizer/Verskorpusa/No Kkats/any other fertilizer)	July/Aug	0	0	2800	2800
2	Weeding (Complete weeding), Mounding & Soil working 11m. distance around the plants	Sep/Oct	15	4665	0	4665
3	Fire line tracing (2 m. wide fire line over 400 m long) including maintenance of inspection path	Feb/Mar	3	933	0	933
4	Watch & Ward including watering as per requirement	Apr/May	18	5598	0	5598
5	Maintenance of Temporary Labour Shed, Drinking water facility and First Aid etc.	Apr/May	0	0	1000	1000
Total			36.0	11196	3800	14996
4th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400 m long) including maintenance of inspection path	Feb/Mar	3	933	0	933
2	Watch & Ward including maintenance of vegetative barriers	Apr/May	18	5598	0	5598
Total			21	6531	0	6531
5th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933
2	Watch & Ward	Apr/May	18	5598.00	0	5598
Total			21	6531	0	6531
6th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933.0
2	Pruning of trees/shrubs, Staking out of multiple streams	Jan/Mar	3	933.00	0	933.0
3	Watch & Ward	Apr/May	18	5598.00	0	5598.0
Total			24	7464	0	7464.0
7th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933
2	Watch & Ward	Apr/May	18	5598.00	0	5598
Total			21	6531	0	6531
8th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933
2	Watch & Ward	Apr/May	18	5598.00	0	5598
Total			21	6531	0	6531
9th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933
2	Watch & Ward	Apr/May	18	5598.00	0	5598
Total			21	6531	0	6531
10th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933	0	933
2	Watch & Ward	Apr/May	18	5598.00	0	5598
Total			21	6531	0	6531
Year wise Abstract of Cost Norm (showing seedling cost separately)						

Sl. No.	Item of work	Preferable Period of Duration	No. of Mandays	Labour Cost (In Rs.)	Material Cost (In Rs.)	Total cost (In Rs.)	
1	2	3	4	5	6	7	8
Sl. No.	Year	No. of Mandays	Labour cost (In Rs.)	Material Cost (In Rs.)	Monitoring, Evaluation, Counting, Documentation and Other Contingency (5% of (4+5))	Cost of Seedlings @Rs.50.01 per seedling	TOTAL COST (In Rs.)
1	2	3	4	5	6	7	8
1	1st year	57.0	17727.0	7699.0	973.60	0.00	26399.60
2	2nd year	76.5	23791.5	14693.0	1918.50	53241.00	95584.00
3	3rd year	38.5	11974.5	4475.0	621.50	5031.00	22302.00
4	4th year	26.0	12156.0	3800.0	749.00	0.00	16705.00
5	5th year	21.0	6521.0	0.0	326.00	0.00	6847.00
6	6th year	21.0	6521.0	0.0	326.00	0.00	6847.00
7	7th year	26.0	7668.0	0.0	372.00	0.00	8040.00
8	8th year	21.0	6521.0	0.0	326.00	0.00	6847.00
9	9th year	21.0	6521.0	0.0	326.00	0.00	6847.00
10	10th year	21.0	6521.0	0.0	326.00	0.00	6847.00
11	11th year	21.0	6521.0	0.0	326.00	0.00	6847.00
Total:		358.0	111328.0	26475.0	6793.0	60372.0	204978.0

Notes

- Priority must be given to the indigenous local species available nearby to the site of plantation.
- 30% indigenous fruit bearing trees must be preferred to plantation.
- Site specific soil conservation work like LBCD, Gully Plugging, Ringwood Trench, Contour Trench, Graded Bund, etc. may be taken up.
- Chain link fencing can be adopted in the 1st plantation taken up outside the forest area and bamboo twig fencing may be preferred.
- Watering facilities for procurement of water & watering may be adopted as per the availability of water.
- The Cost Norms of various items can be changed with the approval of the concerned NCD's keeping the overall cost norm fixed for each financial year.


 A/CCF (Forest Division & NO, FC Act)

Matrix for AR-1000 Plants / Ha

SI No.	Contract Year	In Rupees																				Total Cost (10 Years)					
		I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX		XXI				
1	2015-22	22100	90413	22200	18206	6050	8557	7837	9857	6837	6837	6837	6837	6837	6837	6837	6837	6837	6837	6837	6837	6837	6837	6837	6837	284718	
2	2022-23		23613	395456	28516	10137	8752	9288	13037	20130	20838	21068	31737														346054
3	2023-24			24586	110729	27105	20694	9193	9348	11578	12987	11170	13727	12313													259777
4	2024-25					25815	118108	28462	12529	9100	20130	21189	11279	12118	12929												271716
5	2025-26							27206	122078	20853	27124	20131	20837	17265	11727	12918	12928	13076									186302
6	2026-27							18462	228182	31377	23761	20840	11189	13401	13118	12911	13876	14794									220287
7	2027-28								12884	124328	32946	24275	21172	13427	14273	12878	14354	14987									314046
8	2028-29									31370	34732	24503	26466	11761	-1113	14777	12679	14377	14947	15375							300278
9	2029-30										32947	142827	38379	26908	12918	12929	15116	14334	14940	15773	16241						340706
10	2030-31										24194	125800	38120	28234	12954	13375	14272	14867	15778	16221	17326						364127

Matrix for Model A Conventional CA Plantation (AR) 1000 plants per Ha

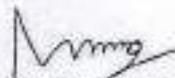
APCC Forest Division & NO. FC Act

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

Annexure-11			
Cost Norms for creation of Compensatory Afforestation with Stabilization of Soil & Conservation of Moisture (2000)			
WAGE RATE Rs-311/- PER DAY			
S.No	Item of Works	Preferable Period of Execution	Total Cost
6th Year (Pre-Planting Operations)			
1	Nil		0
5th Year			
2	Soil Conservation measures structures like staggered Trench, Percolation pit, Contour trench, Graded earthen bank, EMLD, Wire mesh LECR, Sub surface Dyke & WIS as per the slope & site requirement as LS	Apr/Sep	20,215
4th Year			
3	Maintenance of SMC structures @ 15% of total year cost	Apr/Jul	3,032
3rd Year			
4	Maintenance of SMC structures @ 15% of total year cost	Apr/Jul	3,032
2nd Year			
5	Maintenance of SMC structures @ 15% of total year cost	Apr/Jul	3,032
1st Year			
6	Maintenance of SMC structures @ 15% of total year cost	Apr/Jul	3,032
Total			32,343.0

S. No	Year	No. person days	Labour cost @ Rs.311/-per day	Material cost	Total cost (Rs.)
1	6th year	0.0	0.0	0.0	0.0
2	5th year	0.0	0.0	20,215.0	20,215.00
3	4th year	0.0	0.0	3,032.00	3,032.00
4	3rd year	0.0	0.0	3,032.00	3,032.00
5	2nd year	0.0	0.0	3,032.00	3,032.00
6	1st year	0.0	0.0	3,032.00	3,032.00
Total		0.00	0.00	32,343.0	32,343.0

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

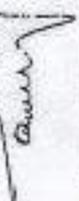

 M. V. Rao
 A.P.C.A. (Forest, Soils & NW, P.C. Act)

Matrix for (SMC)

Matrix for (SMC)

Sl. No.	Commencement Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	Total Cost
Base Value		0	20015	3032	3032	3032	3032	3032										
1	2021-22	0	21226	3342	3510	3665	3876											8663
2	2021-23		0	22287	3501	3686	3899	4064										37415
3	2021-24			0	23401	3704	3870	4080	4287									39284
4	2024-25				0	36571	3888	4096	4298	4483								41348
5	2025-26					0	25803	4081	4287	4478	4702							43310
6	2026-27						0	27012	4166	4380	4702	4938						45475
7	2027-28							0	28413	4477	4702	4937	5196					47749
8	2028-29								0	25807	4723	4937	5185	5463				50136
9	2029-30									0	31390	4916	5186	5461	5717			52642
10	2030-31										0	37978	5183	5465	5715	6028		55274

In Rupees


 MFCCT (Forest Diversion & ND, FC Act)

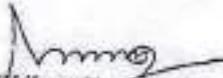
Fencing Model F-II

Fencing for Compensatory Plantation raised outside the Forest Areas using Angle Iron & Chain Link wire mesh

Fencing Model F-II						
Fencing for Compensatory Plantation raised outside the Forest Areas using Angle Iron & Chain Link wire mesh (250 Post/Ha.)						
WAGE RATE Rs-111/- PER DAY						
Sl. No	Items of work	Preferable Period of Execution	Man days	Wages	Material cost (Rs)	Total Cost (Rs per Ha.)
0th Year (YPO)						
1	Earth work (excavation of trench) in 100rd soil @ 1.2 distance 3 mt. 0.40m x 0.40m x 0.10m = 0.064 x 24 = 5.376 cum @ Rs. 140/ cum = Rs. 752.		2.42	752.62	0.0	752.6
2	Linear concrete (1:2:4) using 80 mm 800 mesh 04 X 0.40m X 0.40m X 0.10m = 1.264 @ 1155.96/cum		0	0	5,047.4	5,047.4
3	Angle iron pole of size 50 mm X 50 mm X 6 mm of height 2.50 mt. 24 x 2.50 = 301.60 Sqmt. @ 4.50/kg/ Sqmt. = 307.20 kg @ 61.50 per kg				61,050.0	61,050.0
4	Survey of concrete (1:2:4) for casting the four angle pole using 10mm 800 mesh 04 X 0.40m X 0.40m X 0.30m = 4.032 cum @ 2,980.77/cum				22,123.0	22,123.0
5	Cost of Chain link mesh using 4 mm Dia GI wire having the size 50 mm X 50 mm 250 Post X 2.50 mt. = 575 Sqmt @ 371/Sqmt = Rs. 1,73,775				1,73,775.0	1,73,775.0
6	Double end pinning of iron angle pole over a coat of primer using good quality enamel paint 24 x 2.50 = 60.00 = 35.20 sqmt. @ Rs.109.90/Sqmt.				3,898.0	3,898.0
7	Painting of chain link mesh 250 x 2.50 = 625/100 = 395 Sqmt. @ Rs. 108.00 sqmt.				11,424.0	11,424.0
8	Transportation of Chain link mesh, wire angle, 50kg/roll @ using a chain link mesh etc. @ 2% of the material.				5,000.0	5,000.0
TOTAL			2.42	752.62	1,84,857.4	1,85,610.0
Rs/ha per raising mt. 1,85,610/- 250x Rs. 1142/Post						
1st Year Maintenance						
1	No Maintenance is required.	Sept./Oct	0	0	0	0
2nd Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per raising mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
3rd Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per raising mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
4th Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per raising mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
5th Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per raising mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
6th Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per raising mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
7th Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per raising mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
8th Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per raising mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
9th Year Maintenance						
1	Maintenance of wire mesh fence @ 1% per raising mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11	Sept./Oct	0	0	11000	11000
10th Year Maintenance						

Sl. No	Items of work	Proposed Period of Execution	Man days	Wages	Material cost (Rs)	Total Cost (Rs. per Ha.)
1	Maintenance of wire mesh fence @ 10% per running cost of installation by 1st yr. (1142.5% = 13.47 sq. Ha. 11)	Sep./Oct	0	0	11000	11000

Abstract					
Sl. No	Year	No. person days	Labour cost @ Rs. 211/- per day	Material Cost	Total cost (Rs.)
1	1st year				
2	1st year	2.42	512.62	28005.74	28518.36
3	2nd year	0.0	0.0	0.0	0.0
4	3rd year	0.0	0.0	11000.0	11000.0
5	4th year	0.0	0.0	11000.0	11000.0
6	5th year	0.0	0.0	11000.0	11000.0
7	6th year	0.0	0.0	11000.0	11000.0
8	7th year	0.0	0.0	11000.0	11000.0
9	8th year	0.0	0.0	11000.0	11000.0
10	9th year	0.0	0.0	11000.0	11000.0
11	10th year	0.0	0.0	11000.0	11000.0
	Total	2.42	732.62	283857.4	2,84,610.0


 APCEF (Forest Division & NO, FC Act)

Matrix for Model-F-II Fencing (Angle Iron & Chain Link wire mesh)

Matrix for Fencing Model-F-II (Iron angle with Chainlink wire mesh)

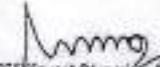
S. No.	Contracting Agency	2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		2030-31		Total Cost
		I	II																									
1	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	41000
2	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	40000
3	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	40000
4	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	40000
5	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	40000
6	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	40000
7	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	40000
8	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	40000
9	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	40000
10	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	2018-19	40000


 Jyoti Prakash
 Jyoti Prakash & Co., FC Act

Watering Model - W-II

Watering Provision to CA Plantation

Watering Model-W-II					
Watering provision to CA Plantation					
Diesel pump set with bore well (1 pump set + 9 bore well for 5 Ha Plantation), Wage rate @ Rs 311/-					
Year of Installation (1st Year)					
1	Cost of borewell		1,50,000		
2	Cost of Diesel pump set 5HP		40,000		
3	Diesel pump set & accessories like commander, filter, etc.		30,000		
4	Water Storage Tanks/ Flexible pipes		15,000		
			2,55,000		
	Cost of Water per Plant (2.55,000/ 5000) = Rs. 51/-			51,000	
	Cost of Water per Ha. = Rs. 51,000/-				
1st Year Watering					
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water - 2l x 1000-			21,000	
2	Watering 1000 Plants (Nov-Mar.) @ 200 plants/HD with 7 days rotation (20 MD x 5 months = 100 MD x 311) =			31,100	
				Total 52,100	
2nd Year Watering					
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water - 2l x 1000-			21,000	
	Maintenance Diesel pump set etc. @ 15% of the installation cost.			7,650	
2	Watering 1000 Plants (April - June & Nov-Mar. - 8 months) @ 200 plants/HD with 7 days rotation (20 MD x 8 months = 160 MD x 311) =			49,760	
				Total 78,410	
3rd Year Watering					
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water - 2l x 1000-			21,000	
	Maintenance Diesel pump set etc. @ 15% of the installation cost.			7,650	
2	Watering 1000 Plants (April - June & Nov-Mar. - 8 months) @ 200 plants/HD with 7 days rotation (20 MD x 8 months = 160 MD x 311) =			49,760	
				Total 78,410	
4th Year Watering					
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water - 2l x 1000-			21,000	
	Maintenance Diesel pump set etc. @ 15% of the installation cost.			7,650	
2	Watering 1000 Plants (April - June & Nov-Mar. - 8 months) @ 200 plants/HD with 7 days rotation (20 MD x 8 months = 160 MD x 311) =			49,760	
				Total 78,410	
5th Year Watering					
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water - 2l x 1000-			21,000	
	Maintenance Diesel pump set etc. @ 15% of the installation cost.			7,650	
2	Watering 1000 Plants (April - June & Nov-Mar. - 8 months) @ 200 plants/HD with 7 days rotation (20 MD x 8 months = 160 MD x 311) =			49,760	
				Total 78,410	
Abstract					
No.	Year	No. person days	Labour cost @ Rs. 311/per day	Material Cost	Total cost (Rs.)
1	1st year	0	0.0	51000.0	51000.0
2	2nd year	160.0	49760.0	21000.0	70760.0
3	3rd year	160.0	49760.0	21000.0	70760.0
4	4th year	160.0	49760.0	21000.0	70760.0
5	5th year	160.0	49760.0	21000.0	70760.0
	Total	740	239140	106600	4,16,740


 APCR (Forest Division & MD, FC Act)

Matrix for Watering Model -W-II (Diesel Pump set Fitted with Borewell) per Ha

Matrix for Watering Model-W-II (Diesel Pumpset Fitted with Borewell) per Ha

Sl. No	Commence ment Year	in Rupees											Total Cost				
		I	II	III	IV	V	VI	VII	VIII	IX	X	XI					
1	2021-22	51000	54705	86439	90771	95377	100077										417094
2	2022-23		13190	57440	90761	95310	100077	105676									502109
3	2023-24			56228	60812	65399	70076	70606	110330								527303
4	2024-25				59239	63828	10076	104000	110330	115847							559608
5	2025-26					67961	66794	100087	110330	115847	120809						581372
6	2026-27						67971	68818	111210	115851	121689	127721					610441
7	2027-28							68140	111210	115850	121689	127721	131707				640604
8	2028-29								111210	115850	121689	127721	131707	140812			673012
9	2029-30									115851	121689	127721	131707	140812	147863		706662
10	2030-31										121689	127721	131707	140812	147863	151405	741996

APCCF (Forget Division & NO. PC And)

Am

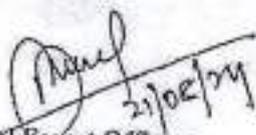
TOTAL COST OF PROJECT

Sl No	Item of Work	Unit price	In Rupees
1	Cost of AR plantation @1000 plants/ ha over 18.00 ha @ Rs.2,71,716/- per ha with 10 years maintenance (As per base norm of Matrix for the year 2024-25).	2,71,716/- x 18.00 ha	48,90,888.00
2	Cost of SMC structure like Staggered trenches, percolation pit, contour trench, Graded earthen bund, LBCD, Wire mesh LBCD, Sub-surface Dyke & WHS as per the slop & site requirement @ Rs.41,248/- per ha over 18.00 ha with 5 years maintenance (As per base norm of Matrix for the year 2024-25).	41,248/- x 18.00 ha	7,42,464.00
3	Cost of Angle Iron & Chain Link wire mesh Fencing @4,85,432/- per 250 rmt/ha over 1.89 Km or 1890 rmt. (As per base norm of Matrix for the year 2024-25)	4,85,432/ 250 RMT x 1890 RMT	36,69,865.92
4	Cost of watering by diesel pump set fitted with borewell for 1000 plants @ Rs. 5,53,688/- per ha (As per base norm of Matrix for the year 2024-25)	5,53,688/- /1,000 x 18,000 nas.	99,66,384.00
	Grand Total		Rs. 1,92,69,601.92 Or say Rs. 1,92,69,700.00

(Rupees one crore ninety-two lakh sixty-nine thousand seven hundred) only

PROVISION OF FUNDS AND FUND UTILIZATION

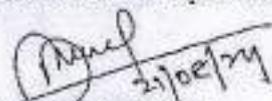
Rs. 1,92,69,700/- (Rupees one crore ninety-two lakh sixty-nine thousand seven hundred) only shall be deposited by the Project Proponent i.e. OPTCL, Keonjhar on approval of the scheme to the Ad-hoc CAMPA Account and the funds will be utilized for raising of Compensatory Afforestation by the Divisional Forest Officer, Keonjhar Division on allotment by the Principal Chief Conservator of Forests, Odisha, Bhubaneswar.


21/02/24
Divisional Forest Officer,
Keonjhar Division.

CHAPTER-VII

DETAILS OF PROPOSED MONITORING MECHANISM

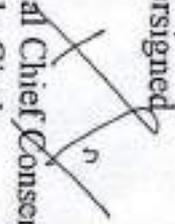
Compensatory Afforestation will be taken up in the identified site by the Range Officer, Champua Range of Keonjhar Division. The Range Forest Officer, Champua Range will undertake field checks of the works undertaken at the identified site and will be cross checked by the Asst. Conservator of Forests, (Affn.) and Divisional Forest Officer, Keonjhar Division. DGPS/ GPS 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 Champua and reported to the Divisional Forest Officer for necessary action. The same thing will be reported to the Regional Chief Conservator of Forests, Rourkela 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.


21/08/24
Divisional Forest Officer,
Keonjhar Division.

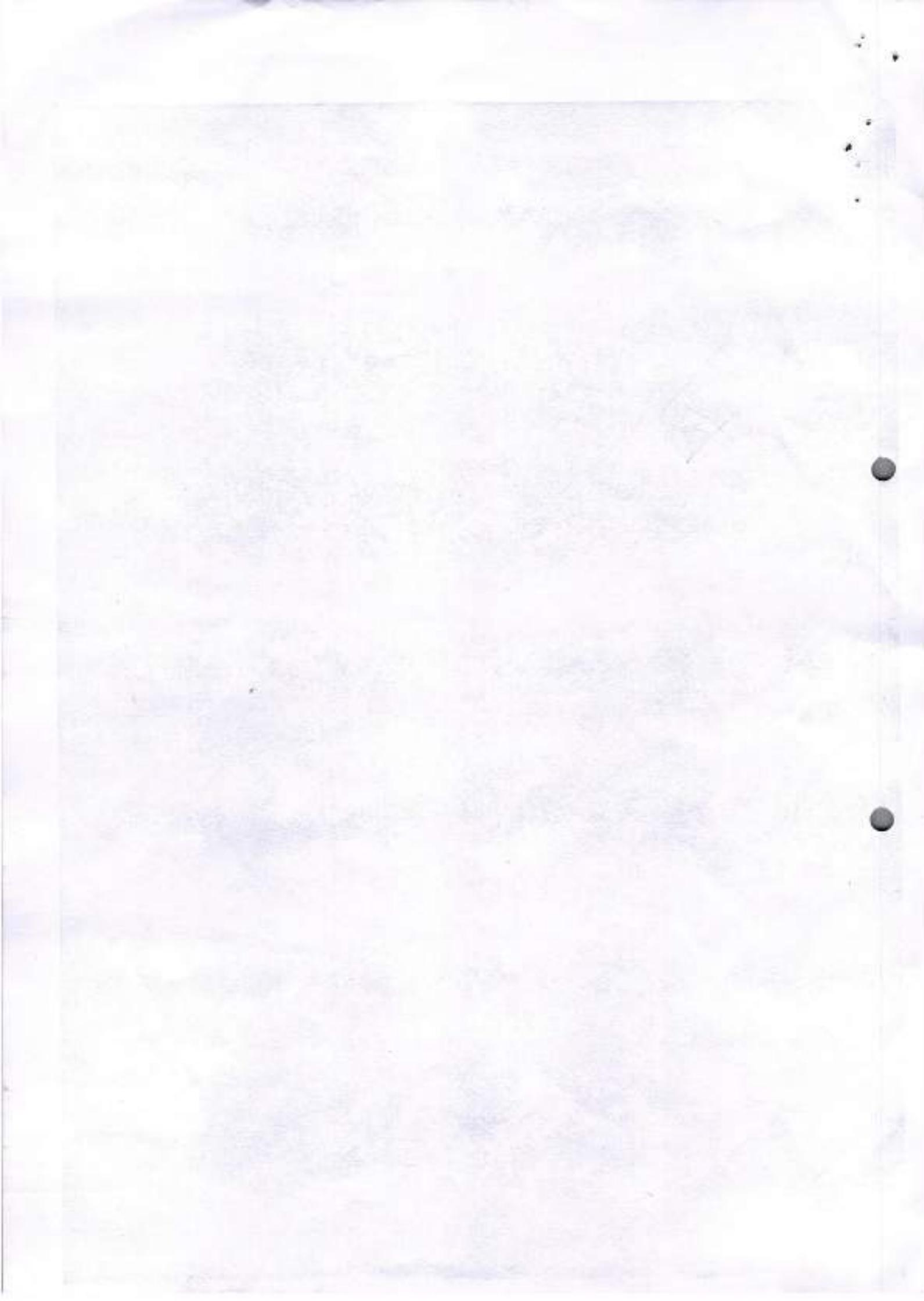
"DSS ANALYSIS CERTIFICATE"

This is to certify that DSS Analysis of land identified for CA/ ACA/ PCA and subsequent ground truthing have been done. The outcome is as mentioned below-

Sl. No.	Name of Range	Name of the Forest Block (RF/RR/PF/DPF/ Revenue Forest)	Area identified for CA/ ACA/ PCA (in ha)	Classification of identified land (in ha)							Area suitable for plantation (in ha)				Plantation model (AR/ANR)	Remarks
				Very Dense Forest	Moderately Dense Forest	Open Forest	Non-forest	Scrub	Water	Total	Open Forest	Non-forest	Scrub	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Changpua Range	Ukhanda RF	CA	0	0	11	7	0	0	18	11	7	0	18	AR	@1000 seedlings per ha

Countersigned

 Regional Chief Conservator of Forests,
 Rourkela Circle


 Divisional Forest Officer,
 Keonjhar Division.



Revised Financial Outlay for **Compensatory Afforestation Scheme** over an area of **18.00 ha** of **Degraded Forest land** identified in **Ukhunda RF** under **Champua Forest Range** of **Keonjhar Forest Division** in respect of **construction of 220 KV D/C Transmission Line at Turumunga** of **OPTCL Keonjhar** as per matrix 2024-25 of approved One-time Cost Norm

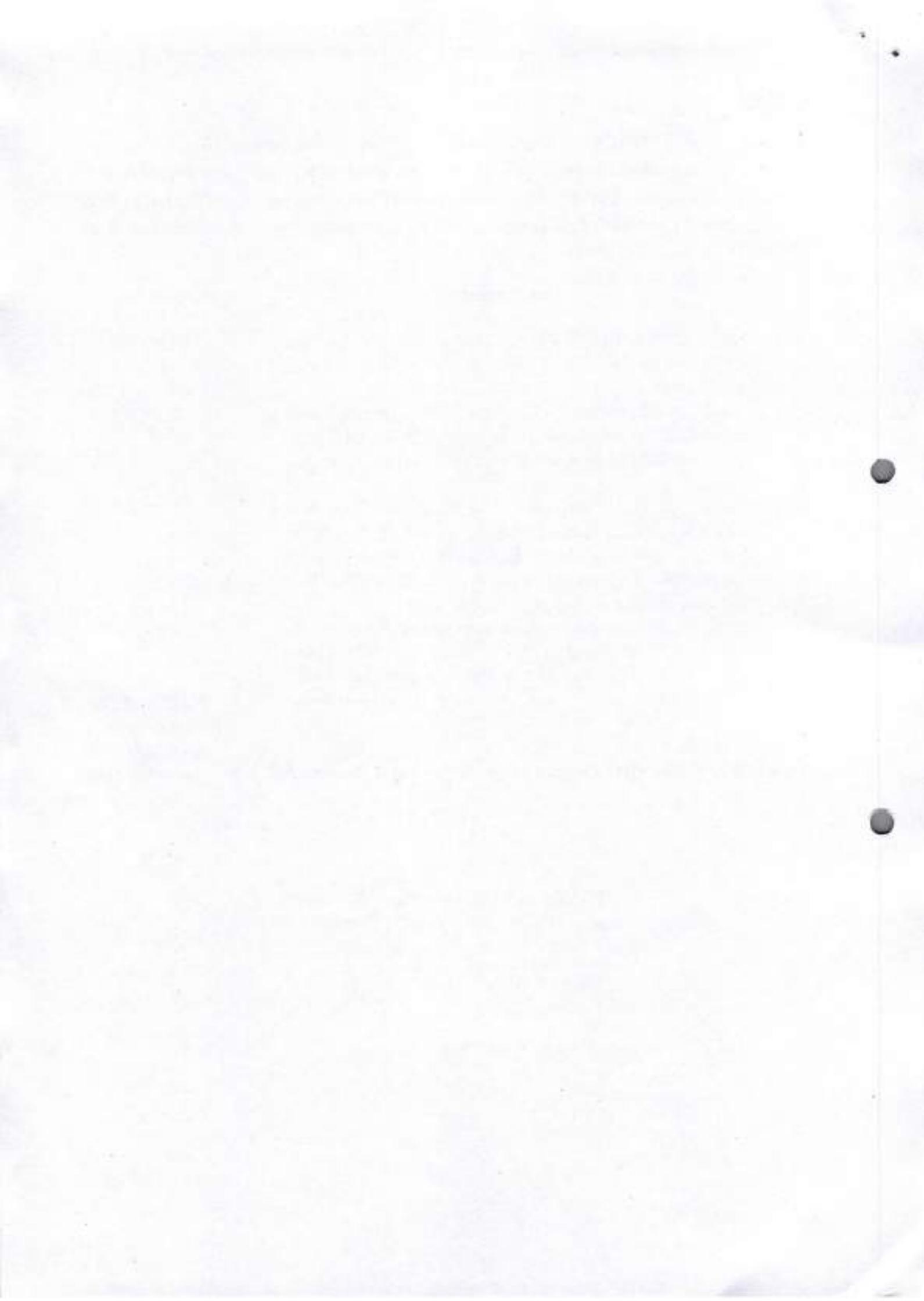
Sl. No.	Description	Amount (Rs.)
1.	Cost of AR Plantation @ 1000 Plant per ha over 18.0 ha @ Rs.2,71,716/- per ha with 10 years maintenance	48,90,888.00
2.	Cost of Bamboo Twig and Thorn fencing over 1890 RMT with 5 years maintenance @ Rs.1,15,725/- per 250 RMT/ ha (As proposed by DFO, Keonjhar Division)	8,74,881.00
3.	Cost of SMC activities like staggered trenches, percolation pits, contour trench, graded earthen bund, LBCD, wire mesh LBCD, Sub-Surface Dyke and WHS as per the slope and site requirement @ Rs.41,248/- per ha over 18.0 ha with 5 years maintenance	7,42,464.00
4.	Watering by borewell fitted with diesel pump set for 18000 Nos. of plants @ Rs.5,53,688/- per 1000 plants (As proposed by the DFO, Keonjhar Forest Division)	99,66,384.00
Grand Total		1,64,74,617.00 or rounded off to 1,64,74,700.00

(Rupees One Crore Sixty Four Lakhs Seventy Four Thousand and Seven hundred) only

Approved


Principal Chief Conservator of Forests
Forest Diversion & Nodal Officer, FC Act

Principal Chief Conservator of Forests
(Forest Diversion & Nodal Officer, FC Act)
O/o the PCCF & HdFF, Odisha, Bhubaneswar



**SCHEME
FOR PLANTATION OF DWARF SPECIES IN
RIGHT OF WAY UNDER THE TRANSMISSION
LINE**

in compliance

to

**Condition No.2A VII of Stage-I Forest
Clearance granted**

**vide Letter No.5-ORC576/2023-BHU Dated
14.03.2024**

**of Govt. of India, Ministry of Environment
and Forests,**

IRO, Bhubaneswar

for

**Diversion of 8.435 ha of forest land for
Construction of 220 KV/DC transmission
line at Turumunga, Keonjhar by OPTCL,
Keonjhar.**

PROJECT IN BRIEF

1.0	Project	Diversion of 8.435 ha of forest land for Construction of 220 KV/DC Transmission line form 400/200 KV PGCIL Grid Sub-Station, Keonjhar to 220/132/33 KV Grid Substation at Turumunga, Keonjhar by OPTCL.
2.0	Project Area	The Proposed transmission line passes through the Keonjhar Forest Division in Keonjhar District.
3.0	Length of Transmission Line	17.132 Km
4.0	Total Forest Area acquired from the Forest Department of Odisha	8.435 ha
5.0	Estimated cost of Project	Rs. 11.90 Lakhs
6.0	Implementing Agency	Keonjhar Forest Division

PROJECT OVERVIEW

OPTCL, proposed to construct a 220KV (DC) Transmission line, from 400/200 KV PGCIL Grid Sub-Station (GSS)at Keonjhar located with the latitude 21°43'25.34" (North) & longitude 85°43'47.588" (East) and the line has been connected with the newly constructed grid sub-station at Turumunga, in Keonjhar district located with the latitude 21°36'19.991" (North) & longitude 85°39'26.064" (East)in Odisha over a distance of about 17.131Km.

The proposed Transmission line covers an area of **59.831 Ha.** of land covering Forest land of **8.435 Ha.** out of which **4.092 Ha.** of Forest land in Naranpur RF & **4.343 Ha.** of Revenue Forest land and non-Forest land of **51.396 Ha.** The non-forest land covers Govt. Land of **14.306 Ha.** & **37.090 Ha.** of Private Land in Sadar & Patna Tahasil of Keonjhar district.

The right of way allowed is 35 meters. The strip plantation of dwarf species is possible over a width of 3m only immediately below the conductors of powerline covering total area of 8.435 Ha only.

The transmission line passes through Naranpur reserve forest (4.092 ha), Revenue Forest (4.343 ha). Out of the total 3 no. of poles passing through forest area, no poles passes through Naranpur reserve forest.

The Integrated Regional Office (IRO), Ministry of Environment and Forests and Climate Change (MoEF&CC), Government of India, Bhubaneswar has accorded Stage- I Clearance for the diversion of 8.435 ha of forest land of Keonjhar Forest Division.

The Condition no A(vii)of the stage-I approval letter of IRO, MoEF&CC, Govt. of India, Bhubaneswar relating to the transmission line *inter alia* states that-

"The user agency in consultation with the State Forest Department shall prepare a detailed scheme for creation and maintenance of plantation of dwarf species (preferable medicinal species) in right of way under the transmission line and provide funds for execution of the said scheme by the State Forest Department."

PROJECT JUSTIFICATION

The Proposal of taking up strip plantation of suitable dwarf medicinal plant species under the electric lines over the width of 3mtrsonly as per site condition. The rationale behind this entire effort is to utilize the affected areas optimally for raising green cover with dwarf medicinal plants, easy to grow, require little care and maintenance at the same time having some economic importance. Also, their height would be such as not to interfere with the smooth transmission of electricity through the proposed construction of transmission lines. Efforts would be made to plant species so that benefits can be accrued throughout the year, ensuring maximum survival, growth and return therefrom.

CHOICE OF SPECIES

As per the requirement mentioned in the preceding paragraph, the following species would be taken up for planting, depending on the suitability of the sites.

Table 1: Species that has been selected for plantation

Sl No	Plant Name	Scientific Name
1	Amla	<i>Emblica officinalis</i>
2	Asoka	<i>Saraca indica</i>
3	Baula	<i>Mimusops elengi</i>
4	Ber	<i>Ziziphus mauritiana</i>
5	Curry Leaf	<i>Murraya koenigii</i>
6	Bel	<i>Aegle marmelos</i>
7	Sunari	<i>Cassia fistula</i>
8	Khair	<i>Acacia catechu</i>
9	Reetha	<i>Sapindus emarginatus</i>
10	Patalgaruda	<i>Rauwolfia tetraphylla</i>
11	Rosamari	<i>Rosarmarinus officinalis</i>
12	Gangasiuli	<i>Nyctanthus arboristrictus</i>
13	Sitaphal	<i>Annona squamosa</i>
14	Sisal	<i>Agave sisiana</i>

The central portion of the Right of way (3 metre) which have the maximum sag of the conductor will cover under above dwarf species plantation to avoid any contact with line conductor.

OBJECTIVE AND METHODOLOGY

The overall objective of the project is as mentioned below: -

- (i) Awareness generation among different stakeholders of the project (M/s-OPTCL, the local communities, the Forest Department etc.) regarding the need to maintain the biodiversity of the region with adequate scheme when there is diversion of forest land for non-forestry purposes.
- (ii) Local communities may reap benefits from this economic & medicinal species.
- (iii) Develop replicable and viable models of plantation with careful selection of species.

Methodology of Implementation

The Project would be implemented by Koonjhar Forest Division taking into consideration the following conditions.

Project Components

Plantation of dwarf medicinal plant would be taken up under the conductors in strip width of 35 m. over total length of 2410 meter of forest land. Thus, the area would be $(2410 \text{ mtr} \times 30 \text{mts} / 10000) = 72300 \text{ Sq meter or } 7.23 \text{ ha- } 0.0758 \text{ ha (10 nos. base tower area)} = 7.1542 \text{ ha}$ covered with ANR plantation of dwarf medicinal plant species. The plantation of dwarf medicinal plants (as indicated in Table 1) above shall be done taking into consideration of different soil types and moisture condition of the area.

Site Development

Before taking up the proposed plantation, the entire identified site needs to be properly demarcated, cleared and cleaned.

Raising of Nursery

As the projects come under the jurisdiction of Keonjhar Division, it is proposed that the required Nursery stock shall be raised in Keonjhar Central Nursery. Raising of planting stock along with seedlings for causality replacement shall be carried out simultaneously in the polypots of size 12"x10". Nursery soil shall be prepared very carefully as success of planting depends upon the quality of seedlings raised. The soil mixture shall be of earth, washed river sand and manure in the ratio of 6:3:1. Any manure when used shall be free of white ants etc. Watering to seedlings shall ordinarily be done in the afternoon. Regularly weeding should be done. In the nursery, there is every possibility of escaping roots from the polypots which should be regularly trimmed.

Digging of pits

Alignment, stacking and pitting shall be taken up in the month of November. Digging of pits shall be completed in the month preceding the planting season preferably in May. The size of the pits shall be 45 cm cube. While digging pits, the top half soil be kept separately. At the time of planting the top soil kept separately shall be put on the bottom of the pits. Pits should not be dugout just before the planting. Areas liable to inundation or water logging shall be raised into mounds for planting. The size of the mound shall be such that it is not washed during rains.

Planting

The seedling must be at least 90 cm height at the time of planting. Pots shall be handled very carefully, so that the ball of earth is not broken. Before transporting the seedling must be watered properly. At the time of planting, the pits shall be applied with manure insecticide. The soil around the plant shall be well compacted with the help of foot. The earth close to the stem of seedling shall be slightly elevated, so that rain water does not accumulate.

Weeding & Soil working

Regular weeding & soil working is essential for a successful plantation. Weeding shall be started immediately after planting is over. 1st weeding shall be carried out over the entire area of plantation. 2nd weeding be in strips. Grasses and weeds shall be scrapped around the plants with a radius of 0.5mtr. The soil around the plants shall be loosened carefully for better aeration.

Manuring

Chemical manure shall be applied to the plants with great care. It should be applied in frequent small dose. It can also be applied by making 3 holes with the help of crowbar. 30gms to 50gms of chemical manure (NPK/DAP) shall be provided to the soil per plant. Sometimes influx of insects and pests into the planting area causes heavy damage to the soft & tender part of the seedlings. They usually damage the growing parts of the plant. To avoid such damage foliar spray as well as ground application of insecticides shall be done at regular intervals.

Watering Provision

Watering is proposed by diesel pump set fitted with borewell for 1000 plants @Rs 5,53,688/- per ha for 3,578 nos. seedlings (As per base norm of Matrix for the year 2024-25)

Protection from grazing & fire

As dwarf & medicinal seedlings are planted, it is proposed to protect the CA plantation from grazing by domestic animals using GI Chain Link Mesh Fencing. The total length of such GI Chain Link Mesh Fencing for the patch which comes to 6.471 KM. or 6471 RMT. 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 nearest VSS

Subsequent Maintenance & Management

The Success of any project depends on the adherence to all project components properly. In the plantation related activities such as, post plantation care & maintenance are the integral part of the entire exercise. As a result, for nine years, subsequent from the year of establishment of plants, protection in the form of watch & wards need to be provided. Kconjhar Forest Division would implement the project & also maintain after the project period is over. The usufructs of the area would be shared among the VFPCs members as per prevailing state government orders, thereby providing incentive to them. Plantation shall be maintained up to 10 years.

Special soil conservation measures

The project site requires some soil & moisture conservation measures. Moisture conservation is necessary to protect the plant from drought. It has been proposed to provide half-moon trenches on the uphill side of the pit. The entire area shall be covered with staggered trenches of size 2m x 0.5m x 0.5m @ 300 no. per ha.

Project Benefits & Beneficiaries

The beneficiaries would be selected by VFPCs carrying out wealth ranking during PRA exercise in each village. Village-wise wealth ranking has already been done by VFPCs to identify the families below poverty line. Families living below poverty line, whether land holders or landless, would be eligible to get employment under the project. Landless families having minimum income level would be considered in the ascending order from the wealth - ranking list. Those families chosen by VFPCs or EDCs would get sustained employment, generated by various project components in the generation/plantation work & other related activities.

Socio-economic Benefits

The villages will derive a variety of direct and indirect economic benefits from the project by engaging themselves in the plantation activities for a period of 10 years. The villages covered under VFPCs/EDCs will be strengthened.

Ecological Benefits

Plantation of medicinal plants in the affected areas will result in increasing the biodiversity of the area along with checking the soil erosion and subsequent loss of valuable soil cover from the forest area. In the absence of this project, it would be subjected to vagaries of weather which ultimately devoid all vegetative cover.

Provision of funds and Fund Utilisation

The user agency i.e. M/s OPTCL Ltd. shall deposit the funds on approval of the scheme in Ad-hoc CAMPA Account and the funds will be utilized for raising of Plantation of dwarf species in transmission line by the Divisional Forest Officer, Keonjhar Division on allotment by the Principal Chief Conservator of Forests, Odisha, Bhubaneswar.

COST OF DWARF PLANTATION SCHEME OVER 7.1542 HA

OUTLAY OF THE DWARF PLANTATION SCHEME				
Sl. No	Activities	Area in Ha	Cost Norm (in Rs)	Amount Required (in Rs)
1	ANR plantation of dwarf medicinal plant species @ 500 seedlings per ha and maintenance up to 10 years. [Estimate for one Ha is shown at Annexure-I]	7.1542	Rs.1,96,478/- x 7.1542 ha	14,05,642.908
2	Cost of Soil Moisture Conservation (SMC) (As per base norm of Matrix for the year 2024-25)	7.1542	41,248/- x 7.1542 ha	2,95,096.441
3	Cost of Angle Iron & Chain Link wire mesh Fencing @ 4,85,432/- per 250 rmt /ha over 6.471 Km or 6471 RMT. (As per base norm of Matrix for the year 2024-25)	-	4,85,432/- / 250 RMT x 6471 RMT	1,25,64,921.89
4	Cost of watering diesel pump set fitted with borewell for 1000 plants @ Rs. 5,53,688/- per ha for 3578 nos. seedlings [As per base norm of Matrix for the year 2024-25]	-	5,53,688/- x 4 nos.	2214752.00
	Grand Total			1,64,80,413.24 Or say 1,64,80,450.00

[Rupees one crore sixty-four lakh eighty thousand four hundred and fifty] only

Technically Approved

Principal Chief Conservator of Forests
Keonjhar Division

Divisional Forest Officer,
Keonjhar Division.

Annexure-I

COST STRUCTURE OF PLANTATION, PROVISION OF FUNDS AND UTILIZATION
 Base Cost Norm for ANR Plantation @500 seedlings per ha @ 450.00/- Mandays as per revised wage rate by Labour Commissioner, Odisha, Bhubaneswar vide Notification No. 2238/LESI dated 13.03.2024.

Sl. No.	Items of work	Perferable 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 (Advance work) Per- Plantation Operation						
1	Survey, Demarcation and Pillar posting	Nov/Dec	2	900	0	900
2	Preparation of Treatment Map (Digital Map)	Nov/Dec	1	450	100	550
3	Site preparation (Cleaning & removal of debris)	Nov/Dec	2	900	0	900
4	Silvicultural operations including clearance of weed, cutting of climber, High stump cutting, Slugling of shats and removal of cut out after drying from the field to blank space.	Feb/Mar	15	6750	0	6750
5	Allgoment and stacking of pits	Feb/Mar	1	450	0	450
6	Digging of pits (45 cm x 45 cm x 45 cm) in hard and gravelly soil	Feb/Mar	20	9000	0	9000
	Total		41	18450	100	18550
1st Year /Plantation Year						
1	Refilling of pits by altering the dugout soil of the pits, application of organic compounds/ CDM/FYM & mixing the same properly.	Jun/Jul	4	1800	2500	4300
2	Transpotation of 18 months old polythin bag seedlings in hired truck /tractor from the Permanent /Mega nursery to planting site including loading & unloading. (Average load of 10 Rkro) & stocking the seedling @ Rs. 6/- per Seedling (1100 nos.)	Jul/Aug	0	0	3300	3300
3	Watering polypot seedlings at planting site.	Jul/Aug	1	450	0	450
4	Conveyance of polypot seedling on head load from the stacking site to individual dugout pits within the planting site, applying insecticide, fertilizers 7 planting after seeping the soil with other applied materials & pressing the soil perfectly around the planted seedlings.	Jul/Aug	11	4950	0	4950

5	Cost of Fertilizer & Insecticide (a) NPK/Bio-fertilizer @ 50 gms/plant as basal dose=50kg@ Rs.30/-per kg=Rs. 1500.00 (b) Urea/Vermicompost/Mo Khata/any other fertilizer in two subsequent dose @ Rs. 750.00 (c)Insecticide/ Bio-pesticide @ 5 gms/plant=5 kg @ Rs.15/- per kg=Rs. 750.00	Jul/Aug	0	0	1500	1500
6	Casualty Replacement @ 10 % (100 nos)	Jul/Aug	1.5	675	0	675
7	1st weeding & Manuring	Aug/Sep	5	2250	0	2250
8	2nd Weeding . Soil working (1 mt. diameter around the plants) & Manuring	Oct/Nov	8	3600	0	3600
9	Fire line tracing (2 m. wide fire line over 400m long) including maintenance of inspection path.	Feb/Mar	3	1350	0	1350
10	Watch & Ward including watering as per requirement	Aug/Mar	8	3600	0	3600
	Total		41.5	18675	7300	25975
2nd Year Maintenance						
1	Transportation of 50 seedlings from Nursery to plantation site including loading, unloading & conveyance by Tractor @ Rs. 6/- per seedling	Jul	0	0	300	300
2	Casualty replacement-10%	Jul	1.5	675	0	675
3	Cost of Fertilizer & Insecticide (a) Cost of Insecticide/ Bio-pesticide @ gms/ plant=0.5 kg @ Rs.150/- per kg=Rs.75/- (b) Urea/NPK/Bio-fertilizer/Vermicompost/Mo Khata/any other fertilizer@ Rs. 2800/-	Jul/Aug	0	0	1437.5	1437.5
4	Weeding (Complete weeding), manuring & Soil working, (1 m. diameter around the plants)	Sep/Oct	8	3600	0	3600
5	Fire line tracing (2 m. wide fire line over 400m long) including maintenance of inspection path.	Feb/Mar	3	1350	0	1350
6	Watch & Ward including watering as per requirement	April/Mar	12	5400	0	5400
	Total		24.5	11025	1737.5	12762.5
3rd Year Maintenance						
1	Cost of Fertilizer(Urea/NPK/Bio-fertilizer/Vermicompost/Mo Khata/any other fertilizer)	Jul/Aug	0	0	1400	1400
2	Weeding (Complete weeding), Manuring & Soil working, (1 m. diameter around the plants)	Sep/Oct	8	3600	0	3600
3	Fire line tracing (2 m. wide fire line over 400m long) including maintenance of inspection path.	Feb/Mar	3	1350	0	1350

4	Watch & Ward including watering as per requirement	April/Mar	12	5400	0	5400
	Total		23	10350	1400	11750
4th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m long) including maintenance of inspection path.	Feb/Mar	3	1350	0	1350
2	Watch & Ward including maintenance of vegetative fencing	April/Mar	12	5400	0	5400
	Total		15	6750	0	6750
5th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m length)	Feb/Mar	3	1350	0	1350
2	Watch & Ward	April/Mar	12	5400	0	5400
	Total		15	6750	0	6750
6th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m length)	Feb/Mar	3	1350	0	1350
3	Watch & Ward	April/Mar	12	5400	0	5400
	Total		15	6750	0	6750
7th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m length)	Feb/Mar	3	1350	0	1350
2	Watch & Ward	April/Mar	12	5400	0	5400
	Total		15	6750	0	6750
8th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m length)	Feb/Mar	3	1350	0	1350
2	Watch & Ward	April/Mar	12	5400	0	5400
	Total		15	6750	0	6750
9th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m length)	Feb/Mar	3	1350	0	1350
2	Watch & Ward	April/Mar	12	5400	0	5400
	Total		15	6750	0	6750
10th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400m length)	Feb/Mar	3	1350	0	1350
2	Watch & Ward	April/Mar	12	5400	0	5400
	Total		15	6750	0	6750

Year wise Abstract of Cost Norm (showing seedling cost separately)

Sl. No	Year	No. of Mandays	Labour cost (In Rs)	Material Cost(In Rs.)	Monitoring, Evaluation, Learning, Documentation and Other Contingency (5%) of (4+5)	Cost of Seedlings @ Rs. 67.62 per seedlings	Total Cost (In Rs.)
1	2	3	4	5	6	7	8
1	0th year	41	18450	100	927.5	0	19477.5
2	1st year	41.5	18675	7300	1298.75	67615.10	94888.85
3	2nd year	24.5	11025	1737.5	638.125	6761.51	20162.135
4	3rd year	23	10350	1400	587.50	0	12337.50
5	4th year	15	6750	0	337.5	0	7087.5
6	5th year	15	6750	0	337.5	0	7087.5
7	6th year	15	6750	0	337.5	0	7087.5
8	7th year	15	6750	0	337.5	0	7087.5
9	8th year	15	6750	0	337.5	0	7087.5
10	9th year	15	6750	0	337.5	0	7087.5
11	10th year	15	6750	0	337.5	0	7087.5
	Total	235	105750	10537.5	5814.38	74376.6	196478

GOOGLE EARTH MAP SHOWING TREATMENT AREA OF DWAFI PLANTATION OVER 7.1542 HA. OF FOREST LAND FOR CONSTRUCTION OF 220KV/DC TRANSMISSION LINE AT TURUMUNGA TO KEONJHAR BY OPTCL, KEONJHAR IN KEONJHAR FOREST DIVISION



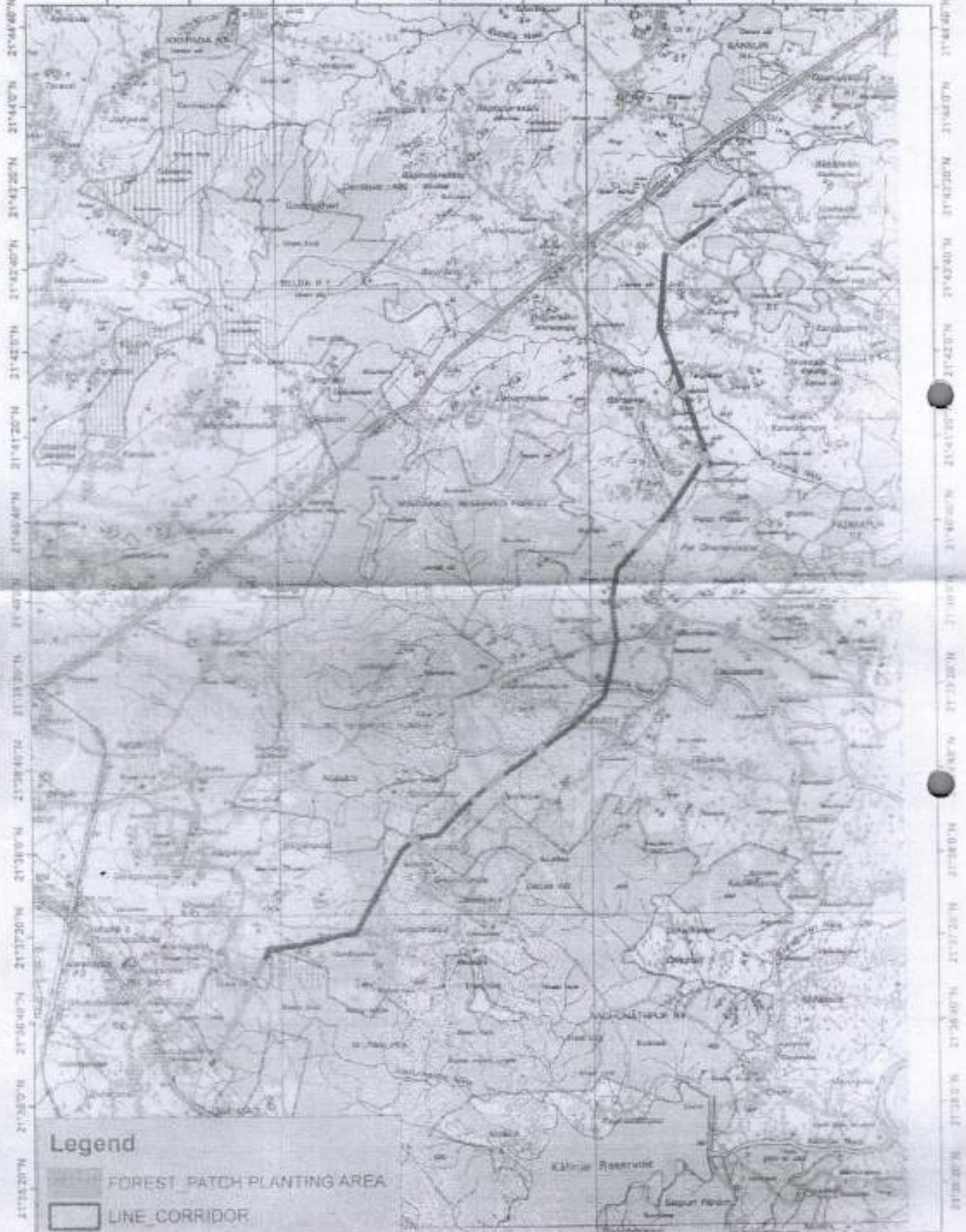
Map
www.keonjharforest.org



TOPOSHEET MAP SHOWING DWAFI PLANTATION AREA OF 7.1542 HA. OF FOREST LAND FOR CONSTRUCTION OF 220KV/DC TRANSMISSION LINE AT TURUMUNGA TO KEONJHAR BY OPTCL, KEONJHAR IN KEONJHAR FOREST DIVISION

1 cm = 500 meters

85°38'40"E 85°39'20"E 85°40'0"E 85°40'40"E 85°41'20"E 85°42'0"E 85°42'40"E 85°43'20"E 85°44'0"E 85°44'40"E



Legend

-  FOREST PATCH PLANTING AREA
-  LINE CORRIDOR

85°38'40"E 85°39'20"E 85°40'0"E 85°40'40"E 85°41'20"E 85°42'0"E 85°42'40"E 85°43'20"E 85°44'0"E 85°44'40"E

21°44'40"N
21°44'00"N
21°43'20"N
21°42'40"N
21°42'00"N
21°41'20"N
21°40'40"N
21°40'00"N
21°39'20"N
21°38'40"N
21°38'00"N
21°37'20"N
21°36'40"N
21°36'00"N
21°35'20"N

21°44'40"N
21°44'00"N
21°43'20"N
21°42'40"N
21°42'00"N
21°41'20"N
21°40'40"N
21°40'00"N
21°39'20"N
21°38'40"N
21°38'00"N
21°37'20"N
21°36'40"N
21°36'00"N
21°35'20"N



OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION

Phone No- 06766-254315, email ID- dfp.keonjhar@odisha.gov.inMemo No. 5354 /6F-Mining-80/2021
Dated, Keonjhar the 09th July, 2024

To

The Deputy General Manager (Elect) EHT
Construction Division, OPTCL, Keonjhar,
AT- Baladevjew Colony, Lane No. 8,
Jagannathpur, Keonjhar- 758001.

Sub: Diversion of 8.435 ha of forest land for Construction of 220 KV/DC transmission line at Turumunga, Keonjhar by OPTCL, Keonjhar.

X-Sub: Demand of funds towards plantation of Dwarf species in the Right of way under the transmission line.

Ref: Memo No. 2837 dated 05.07.2024 of Regional Chief Conservator of Forests, Rourkela Circle, Rourkela.

Sir,

With reference to the aforementioned memo on the captioned subject, this is to intimate that the Regional Chief Conservator of Forests, Rourkela Circle, Rourkela has technically approved the Scheme for plantation of Dwarf species in the Right of way under the transmission line prepared at the prevailing wage rate @Rs.450/- per MD as per onetime cost norm provided by the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated 08.11.2021 (As per base norm of Matrix for the year 2024-25) with a total financial outlay of Rs.1,64,80,450/- (Rupees one crore sixty-four lakh eighty thousand four hundred and fifty) only.

Hence, you are requested to deposit the approved amount Rs. 1,64,80,450/- (Rupees one crore sixty-four lakh eighty thousand four hundred and fifty) only towards plantation of Dwarf species in the Right of way under the transmission line of the aforementioned project through e-portal of MoEF&CC as provided in the <https://parivesh.nic.in/> and the proof/evidence of the deposit of fund be submitted to this office for further necessary action at this end.

Yours faithfully

Divisional Forest Officer,
Keonjhar Division.Memo No. 5355 /Dated 09.07.2024 1/7

Copy forwarded to the Regional Chief Conservator Forests, Rourkela Circle/
Principal Chief Conservator of Forests, Forest Diversion and Nodal Officer, FC Act, O/o the
PCCF & HoFF, Odisha, Bhubaneswar for favour of kind information and necessary action.

Divisional Forest Officer,
Keonjhar Division.



OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION
Phone No- 06766-254315, email ID- dfo.keonjhar@odisha.gov.in

Memo No 5856 /6F-Mining-80/2021
Dated, Keonjhar the 09th July, 2024

To

The Deputy General Manager (Elect) EHT
Construction Division, OPTCL, Keonjhar,
AT- Baladevjew Colony, Lane No. 8,
Jagannathpur, Keonjhar- 758001.

Sub: Diversion of 8.435 ha of forest land for Construction of 220 KV/DC transmission line at Turumunga, Keonjhar by OPTCL, Keonjhar.

X-Sub: Demand of funds towards plantation of 100 nos plant over 0.08 ha in Belda RF.

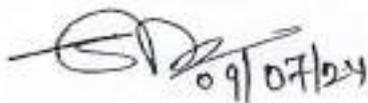
Ref: Memo No. 2835 dated 05.07.2024 of Regional Chief Conservator of Forests, Rourkela Circle, Rourkela.

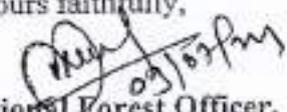
Sir,

With reference to the aforementioned memo on the captioned subject, this is to intimate that the Regional Chief Conservator of Forests, Rourkela Circle, Rourkela has technically approved the Scheme for plantation of 100 nos plant over 0.08 ha of degraded forest land identified in Belda RF under Keonjhar Range prepared at the prevailing wage rate @Rs.450.00 per MD as per onetime cost norm provided by the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated 08.11.2021 (As per base norm of Matrix for the year 2024-25) with a total financial outlay of Rs. 2,45,800/- (Rupees two lakh forty-five thousand eight hundred) only.

Hence, you are requested to deposit the approved amount Rs.2,45,800/- (Rupees two lakh forty-five thousand eight hundred) only towards plantation of 100 nos plant over 0.08 ha of degraded forest land identified in Belda RF under Keonjhar Range of the aforementioned project through e-portal of MoEF&CC as provided in the <https://parivesh.nic.in/> and the proof/evidence of the deposit of fund be submitted to this office for further necessary action at this end.

Yours faithfully,


09/07/24


09/07/24
Divisional Forest Officer,
Keonjhar Division.

Memo No. 5857 /Dated 09.07.2024 6/7

Copy forwarded to the Regional Chief Conservator Forests, Rourkela Circle/
Principal Chief Conservator of Forests, Forest Diversion and Nodal Officer, FC Act, O/o the
PCCF & HoFF, Odisha, Bhubaneswar for favour of kind information and necessary action.


09/07/24
Divisional Forest Officer,
Keonjhar Division.


6/7



OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION

Phone No- 06766-254315, email ID- dfo.keonjhar@odisha.gov.in

Letter No. 5868 / 6F-Mining-80/2021

Dated, Keonjhar, the 25th July, 2024

To

The Deputy General Manager (Elect) EHT
Construction Division, OPTCL, Keonjhar,
AT- Baladevjew Colony, Lane No. 8,
Jagannathpur, Keonjhar- 758001.

Sub:

Diversion of 8.435 ha forest land for construction of 220 KV/DC Transmission line from 400/200KV PGCIL Grid Sub-Station, Keonjhar to 220/132 KV Grid Sub-Station at Turumunga, Keonjhar Approval of SSWLCP.

X-Sub:

Demand of funds towards the approved Site Specific Wildlife Conservation Plan.

Ref:

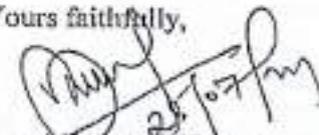
Memo No. 8596 dated 24.07.2024 of Chief Conservator of Forests (WL-II), O/o the Principal Chief Conservator of Forests, (WL), CWLW, Odisha, Bhubaneswar.

Sir

With reference to the aforementioned memo on the captioned subject, this is to intimate that the Chief Conservator of Forests (WL-II), O/o the Principal Chief Conservator of Forests, (WL), CWLW, Odisha, Bhubaneswar has approved the Site Specific Conservation Plan in respect of diversion of 8.435 ha forest land for construction of 220 KV/DC Transmission line from 400/200KV PGCIL Grid Sub-Station, Keonjhar to 220/132 KV Grid Sub-Station at Turumunga, Keonjhar, Odisha with a financial outlay of Rs.135.762 lakh. Hence, you are requested to deposit the said approved amount of Rs.135.762 lakh (Rupees one crore thirty-five lakh seventy-six thousand two hundred) only towards scheme for Site Specific Wildlife Conservation Plan through e-portal of MoEF&CC as provided in the <https://parivesh.nic.in/> and the proof/evidence of the deposit of fund be submitted to this office for further necessary action at this end. Further, it is intimated that the PCCF (WL) has imposed the following conditions at the time of aforesaid approval which has to be abided by the User Agency.

- Activities in the project area as per Chapter- 4 of the Plan will be executed by the project proponent under the guidance of DFO, Keonjhar Division.
- Further, the User Agency shall deposit 5% of the plan cost over and above in the Account of the society "The Wildlife Odisha" maintained in the office of the Principal Chief Conservator of Forests, (WL), CWLW, Odisha, Bhubaneswar towards unforeseen interventions.
- The plan period is five years and will be revisited by concerned DFO at least one year before expiry of its implementation. The User Agency will bear the cost of such plan on its approval. Further, the User Agency will bear additional cost, if any, towards enhancement of wage rate and escalation of price of materials at the time of implementation of this plan. In case of any deviation, it will be dealt as per law for violations of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980, Environment (Protection) Act, 1986, and Wildlife Protection Act, 1972.

Yours faithfully,


Divisional Forest Officer,
Keonjhar Division.

PTO


25/7

SITE-SPECIFIC WILDLIFE CONSERVATION PLAN

for

**Proposed 220KV (DC) Transmission line, from 400/200
KV PGCIL Grid Sub-Station (GSS) at Keonjhar to the
newly constructed grid sub-station at Turumunga, in
Keonjhar, Odisha over a distance of about 17.131Km**

of

M/s Odisha Power Transmission Corporation Limited

PREPARED BY:

**DIVISIONAL FOREST OFFICER
KEONJHAR FOREST DIVISION**



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MAPS

PLATE NO.	DESCRIPTION
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PLATE-II	MAP INDICATING ELEPHANT MOVEMENT OF THE AREA.
PLATE-III	MAP INDICATING OTHER PROJECTS PRESENT WITHIN THE PROJECT AREA.
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ANNEXURES

ANNEXURE NO.	DESCRIPTION
ANNEXURE-I	COPY OF TERMS OF REFERENCE

PREFACE

ODISHA POWER TRANSMISSION CORPORATION LIMITED (OPTCL), designated as the State Transmission Utility in terms of Section 39 of the Electricity Act, 2003; proposed to construct a 220KV (DC) Transmission line, from 400/200 KV PGCIL Grid Sub-Station (GSS) located with the latitude $21^{\circ}43'25.34''$ (North) & longitude $85^{\circ}43'47.588''$ (East) connecting the Grid Sub-Station at Turumunga, in Keonjhar district located with the latitude $21^{\circ}36'19.991''$ (North) & longitude $85^{\circ}39'26.064''$ (East) in Odisha over a distance of about 17.131Km.

As per the working plan, other available references and field data collection, the faunal diversity status of the area has been collected from which it is observed that few Schedule-I Species (As per Wildlife Protection Act, 1972, amended in 2022) are present in the project impact zone for which this Site-Specific Wildlife Conservation Plan has been prepared.

This plan prioritizes the conservation and management of Schedule I species. The proposed project is expected to cause habitat degradation, habitat fragmentation, air pollution, noise pollution, and other impacts on species and their habitats, as well as on the nearby forest-dependent community. Mitigative and remedial strategies have been put forward for both the Core Zone and the Zone of Impact to address all the aforementioned dangers and reduce adversity.


Divisional Forest Officer
Keonjhar Division

EXECUTIVE SUMMARY

1. ODISHA POWER TRANSMISSION CORPORATION LIMITED (OPTCL), designated as the State Transmission Utility in terms of Section 39 of the Electricity Act, 2003: proposed to construct a 220KV (DC) Transmission line, from 400/200 KV PGCIL Grid Sub-Station (GSS) located with the latitude 21°43'25.34" (North) & longitude 85°43'47.588" (East) connecting the Grid Sub-Station at Turumunga, in Keonjhar district located with the latitude 21°36'19.991" (North) & longitude 85°39'26.064"(East) in Odisha over a distance of about 17.131Km.
2. This covers an area of 59.831 Ha. coming under 12 villages under Sadar & Patna tahsil of Keonjhar district including 51.396 Ha. of non-forest land and 8.435 Ha. of forest land.
3. The project will be covering 9 villages under Sadar Tahsil and 3 village under Patna Tahasil in Keonjhar district of Odisha.
4. The location of plant and study area is shown on Survey of India Topo sheet No. F45N10 (73G/10).
5. The proposed transmission line project is located Maidankel Beat, Town Section of Keonjhar & Patna Range under Keonjhar Forest Division.
6. **Core zone:** A total of 36 species of trees, 23 species of shrubs, 21 species of herbs, 9 species of grasses, 24 species of climbers, & 2 species of bamboo have been enlisted inside the project area.
7. There are 8 species of mammals, 5 species of reptiles, 5 species of amphibians and 16 species of birds in the core zone. Fauna in plant area is less as compared to buffer area.
8. **Zone of influence:** 123 species of tree, 3 species of bamboo, 52 species of shrubs, 26 species of herbs, 9 species of grasses and 40 species of climbers are enlisted as per authenticated list of flora.
9. There are 32 species of mammals (including the Asian elephant), 17 species of reptiles, 5 species of amphibians and 35 species of birds enlisted from the zone of influence of this project.
10. According to Champion and Seth's 'Classification of Revised Forest Types of India', The forest types of the project area and its 10 km zone of influence can be classified into two major forest type i.e., (a) Group C: Northern Tropical Moist Deciduous Forest and (b) Group

58; Northern Tropical Dry Deciduous Forest. Besides, Dry Deciduous Shrub Forest also exists to some extent in the area.

11. The prominent fauna of this area are elephants, sloth bears, king cobra etc. Although there are a few identified routes for elephant movements due to encroachments and increasing anthropogenic pressures, elephant presence can be noticed throughout the project impact area irrespective of the identified elephant habitats and routes.
12. The major impact of this project on wildlife includes impact on vegetation, effects of transmission line & right-of-way (stray voltage/induced voltage/contact with transmission line/electric & magnetic field effects on wildlife), forest fire, human-wildlife conflict etc.
13. Mitigative and remedial measures have been proposed both for Core Zone and Zone of Impact which addresses all the above threats to minimize the adversities as detailed below:

WITHIN THE PROJECT AREA

- ❖ Installation of Bird deflector
- ❖ Engagement of Wildlife biologist

WITHIN THE ZONE OF IMPACT

- Creation/Renovation of water holes
- Provision of Elephant Squad

14. Cumulative total of interventions for both Project Area and Zone of Influence is Rs. 135.762 Lakh including cost of escalation @ 20%.


Divisional Forest Officer,
Keonjhar Division

**CHAPTER-1
INTRODUCTION****1. i) BRIEF DESCRIPTION OF THE PROJECT**

ODISHA POWER TRANSMISSION CORPORATION LIMITED (OPTCL), one of the largest Transmission Utility in the country was incorporated in March 2004 under the Companies Act, 1956 as a company wholly owned by the Government of Odisha to undertake the business of transmission and wheeling of electricity in the State. The registered office of the Company is situated at Bhubaneswar, the capital of the State of Odisha. Its projects and field units are spread all over the State.

OPTCL became fully operational with effect from 9th June 2005 consequent upon issue of Odisha Electricity Reform (Transfer of Transmission and Related Activities) Scheme, 2005 under the provisions of Electricity Act, 2003 and the Odisha Reforms Act, 1995 by the State Government for transfer and vesting of transmission related activities of GRIDCO with OPTCL. The Company has been designated as the State Transmission Utility in terms of Section 39 of the Electricity Act, 2003. Notified as the State Transmission Utility (STU) by the State Govt. and discharges the State Load Dispatch functions.

OPTCL, proposed to construct a 220KV (DC) Transmission line, from 400/200 KV PGCIL Grid Sub-Station (GSS) at Keonjhar located with the latitude 21°43'25.34" (North) & longitude 85°43'47.588" (East) and the line has been connected with the newly constructed grid sub-station at Turumunga, in Keonjhar district located with the latitude 21°36'19.991" (North) & longitude 85°39'26.064" (East) in Odisha over a distance of about 17.131Km. The Length of the transmission line is 17.132 km, covering 59.831Ha. area which includes Forest 8.415 Ha. and non-forest land 51.396 ha. The number of towers to be erected is 27.

1. ii) PROJECT COST

The total project cost estimated for this project is Rs. 1190.00 Lakh.

1. iii) LOCATION

The transmission line covers a total of nine villages in Sadar Tahasil and three in Patna Tahasil, all located in Keonjhar district. The location of plant and study area is shown on Survey of India Topo sheet No. F45N10 (73G/10) (PLATE-1).

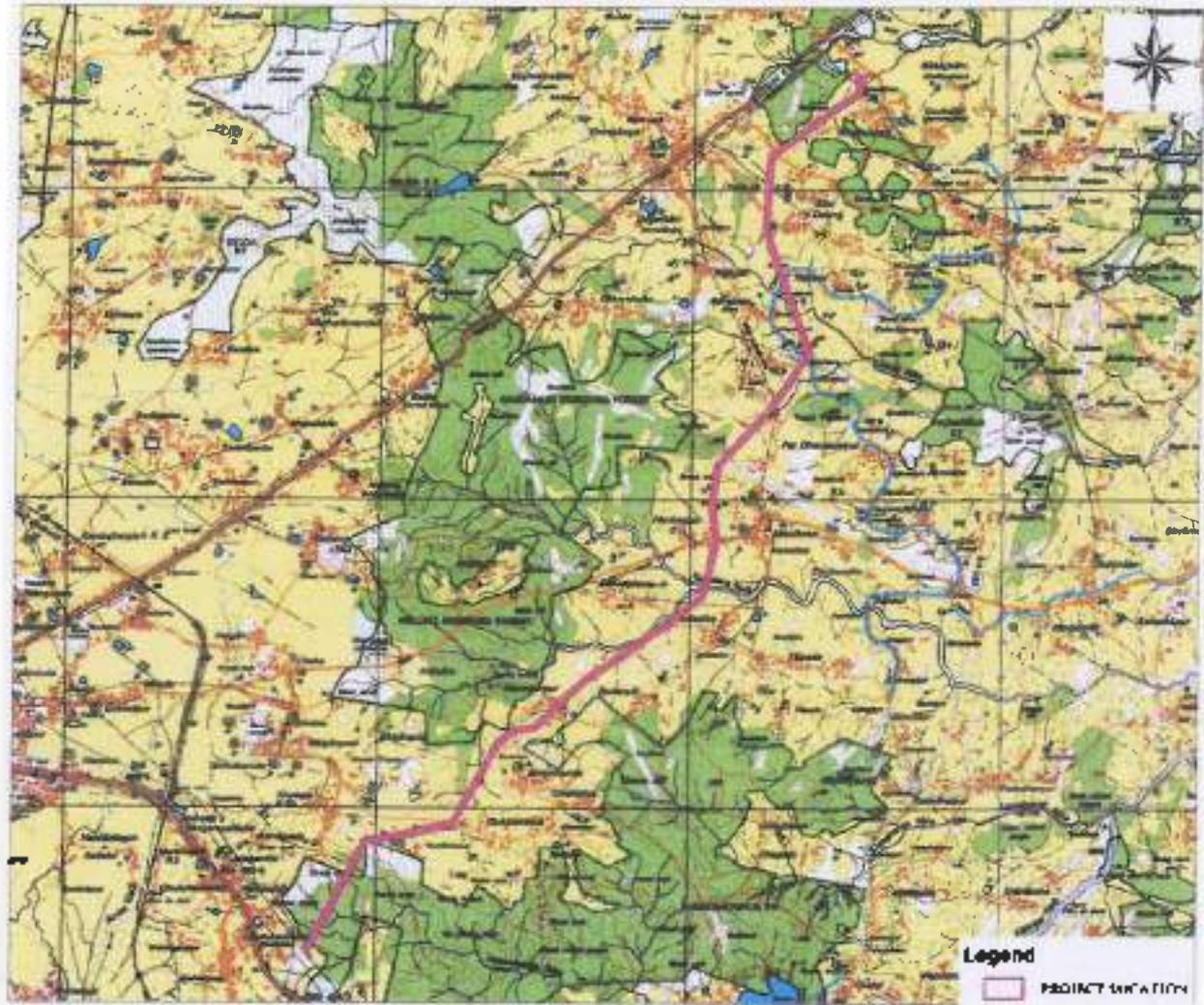


FIG-1: TOPO MAP SHOWING PROJECT LOCATION.

1. iv) NATURE & EXTENT OF LAND REQUIRED

The extent of project area is 59.831 Ha. including 8.435 Ha. of forest land and 51.396 Ha. of non-forest land. Out of 8.435 Ha. of forest land, 4.092 Ha. comes under Naranpur RF & 4.343 Ha. under Revenue Forest land. The land schedule of the project area has been furnished in TABLE-2.

TABLE-2: THE LAND BREAKUP OF THE PROJECT AREA

Land Schedule for Construction of 220 KV D/C Transmission Line from PGCIL 400/200 KV Grid Sub-Station, Keonjhar To 220/132/33KV Grid Sub-Station, Turumunga, Keonjhar.										
SL. NO.	Tahsil	VILLAGE NAME/RF NAME	FOREST LAND (Ha)				NON-FOREST LAND (Ha)			GRAND TOTAL
			HAL FOREST	SABIK FOREST	RESERVE FORES	TOTAL FOREST	GOVT LAND	PVT LAND	TOTAL	
1	KEONJHAR	DIMPUMUNDA	0.000	0.000	0.000	0.000	1.013	1.369	4.382	4.382
2		GUTHALACHATA	0.000	0.000	0.000	0.000	1.140	1.367	4.507	4.507
3		KERI	1.831	0.000	0.000	1.831	1.792	4.392	6.174	8.005
4		KHULAPA	0.000	0.000	0.000	0.000	1.284	0.066	1.350	1.350
5		MAIDANAKELA	0.000	0.000	0.000	0.000	2.188	5.899	8.087	8.087
6		MAHOHPUR	0.816	0.000	0.000	0.816	1.492	4.493	5.955	6.801
7		DHURUDIPAL	0.142	0.000	0.000	0.142	1.419	1.287	2.726	2.868
8		HARANPUR	0.000	0.430	0.000	0.000	0.200	0.545	0.545	0.545
9		PODADHA	0.000	0.000	0.000	0.000	0.353	2.521	2.874	2.874
10		ALANAPADA	0.577	0.000	0.000	0.577	0.258	0.167	0.425	1.102
11		HARANPUR RF	0.000	0.000	4.092	4.092	0.000	0.000	0.000	4.092
		SUB-TOTAL(A)	3.466	0.000	4.092	7.558	10.949	26.106	37.055	44.613
12	PALANA	DALANGA	0.289	0.271	0.000	0.560	0.231	7.860	9.111	8.671
13		LALAPADA	0.000	0.000	0.000	0.000	0.052	0.438	0.496	0.496
14		GODDIPUKHARI	0.000	0.317	0.000	0.317	3.068	2.666	5.734	6.051
		SUB-TOTAL(B)	0.289	0.588	0.000	0.877	3.357	10.984	14.341	15.218
		TOTAL(A+B)	3.755	0.588	4.092	8.435	14.306	17.090	51.396	59.831

1. v) CONDITIONS IMPOSED REGARDING IMPLEMENTATION OF SITE-SPECIFIC WILDLIFE CONSERVATION PLAN

As per Condition No. A (vii) & B (iii) of Stage-I approval granted by IRO, MoEF&CC, Govt. of India, Bhubaneswar vide Letter No. 5-ORC576/2023-BHU Dt. 14.03.2024, it has been mentioned that-

- **Condition No. A (viii):** As recommended by the State Govt. a Site-Specific Wildlife Conservation Plan shall be prepared and duly approved by CWCL, Odisha and to be implemented at project cost.
- **Condition No. B (V)(iii):** The user agency at its cost shall provide bird deflectors, which are to be fixed on upper conductor of transmission line at suitable intervals to avoid bird hits.

CHAPTER-2 PROJECT AND IMPACT AREA

2. 1) DESCRIPTION OF THE PROJECT AREA

The proposed project of Transmission Line from Keonjhar to Turumunga, Keonjhar, over a distance of about 17.134Km comes under Sadar and Patna tahsil in Keonjhar district of Odisha. The proposed 220/132/33 KV Grid Sub-station at Turumunga will facilitate the uninterrupted power supply to the villages covers under the Tahasil of Sadar, Patna, Karanjla, Saharapada command area & overall development of Odisha state in general. The location of study area is shown on Survey of India Topo sheet no. F45N10 (73G/10).

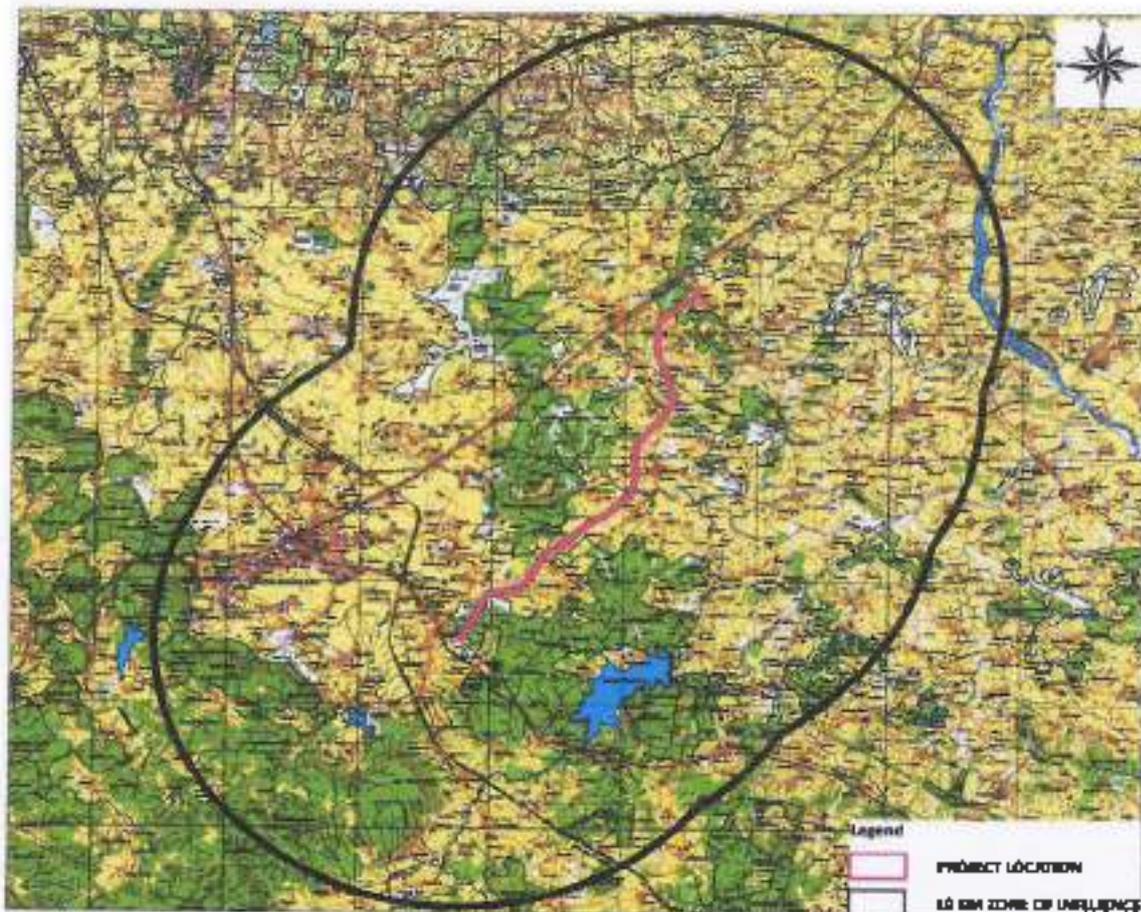


FIG-2: MAP SHOWING PROJECT LOCATION & ITS 10KM ZONE OF INFLUENCE

The proposed transmission line passes through Naranpur, Raghunathpur & Maldankel Beat of Keonjhar & Patna Range under Keonjhar Forest Division.

Topography and Drainage:

Topography- The study area is closer to the national highway (NH-6). The area is characterized by rolling hills having gentle slopes with relatively flat terrain and occasional rocky outcrops. The land is mostly open, with sparse vegetation making it suitable for construction and installation work.

Drainage- Trellis type of drainage pattern is seen. The principal drainage system of the area is the river Baitarani that flows on the eastern side. Seasonal nala of the first and second orders collect the area's surface runoff and release water into the nalas and River Baitarani.

Climate:

The climate of the region is sub-tropical, being characterized by hot and dry summer, high and well distributed rainfall during monsoon and a cold winter. The nearest meteorological station of Indian Meteorological Department (IMD) is Keonjhar. Meteorological parameters of Keonjhar station have been collected for the period 1991-2020, for the study which has been tabulated below (TABLE-3).

Temperature, Relative Humidity and Rainfall:

The month wise average maximum and minimum temperature, average monthly relative humidity at 08:30 hrs & 17:30 hrs and monthly mean rainfall (mm), recorded at IMD station Keonjhar, have been furnished in TABLE-3:

TABLE 3: CLIMATE DATA OF IMD STATION KEONJHAR (PERIOD 1991-2020)

MONTH	Mean Temperature (°C)		Relative Humidity (%)		Mean Rainfall	
	Daily Min.	Daily Max.	08:30 hrs	17:30 hrs	Rain (mm)	Rainy days
Jan	11.4	26.2	67	49	16.7	1.3
Feb	14.8	29.7	64	41	18.8	1.4
Mar	18.7	33.8	58	36	75.9	1.9
Apr	22.1	37.7	54	34	51.9	4.1
May	23.7	37.3	61	47	110.0	6.5
Jun	24.0	33.6	74	69	232.8	11.6
Jul	23.4	30.2	83	82	233.8	14.8
Aug	23.1	29.9	86	84	305.0	13.1
Sep	22.4	30.4	84	84	230.8	13.0
Oct	19.9	29.9	79	75	113.6	5.9
Nov	15.4	28.1	71	55	21.5	1.3
Dec	11.5	26.1	68	55	8.7	0.8
Annual	19.3	31.1	71	60	1419.4	77.8

Source: Indian Meteorological Department, Keonjhar

2 (i) LAND USE:

The detail purpose-wise breakup of the project area is tabulated below in **Table-4**.

TABLE 4: LAND USE BREAKUP OF PROJECT AREA

Sl. NO.	Pattern of Utilisation	Non-forest Govt. Land (ha)	Non-forest Pvt. Land (ha)	Reserve Forest (ha)	Revenue Forest (ha)	Total (ha)
1.	Foundation of Casting AP & Suspension Tower inside passing the Transmission Line Corridor (35 ROW)	14.306	37.090	4.092	4.343	59.831
Total		14.306	37.090	4.092	4.343	59.831

2. ii) HUMAN HABITATIONS:

The village wise population as per Census 2011 records is given in TABLE-5.

TABLE 5: DISTRICT & SUB DISTRICT WISE POPULATION. (CENSUS 2011)

Sl.	Village	No of Household	Total Population	Total Male	Total Female	Sex Ratio	Population of 0-6yrs			SC Population			ST Population			Percentage of SC to Total Population	Percentage of ST to Total Population
							Total	Male	Female	Total	Male	Female	Total	Male	Female		
1	Alanapada	87	357	175	182	1040.00	38	21	17	55	28	27	76	38	38	15.41	21.29
2	Dalanga	253	1110	544	546	968.09	177	71	66	64	32	32	340	202	188	5.77	35.14
3	Dhucurupala	82	336	154	182	1181.82	48	19	29	0	0	0	120	56	64	0.00	35.71
4	Dunirimunda	114	472	235	237	1008.51	66	30	36	27	14	13	105	56	49	5.72	22.25
5	Godipokhari	224	954	469	485	1034.12	118	54	64	10	5	5	681	337	344	1.05	71.38
6	Gurafachatu	178	776	377	399	1058.36	116	50	66	21	10	11	362	177	185	2.71	46.65
7	Keru	305	1297	647	650	1004.64	155	70	85	185	87	98	469	238	231	14.26	36.16
8	Khclapa	142	680	344	336	976.74	150	73	77	11	0	0	442	216	226	0.00	65.00
9	Maidamikela	276	1267	634	633	998.42	147	79	78	171	75	96	574	289	285	13.50	45.30
10	Mananapur	353	1908	1000	908	908.00	197	105	92	158	82	76	573	293	280	8.28	30.03
11	Porkulha	76	270	142	128	901.41	31	17	16	41	24	17	27	11	10	15.19	7.78
12	Talapada	221	979	486	493	1014.40	121	60	61	44	23	21	707	358	349	4.49	72.22
13	Manuharpur	53	191	91	100	1098.90	26	10	16	0	0	0	14	66	75	0.00	73.82
	Total	2360	10597	5318	5279	992.67	1360	657	703	776	380	396	4661	2337	2324	7.32	43.98

The village wise demographic details including population of males, females, scheduled caste, scheduled tribe, literacy level are summarized in TABLE-6.

**TABLE 6: DEMOGRAPHIC DETAILS OF THE STUDY AREA
(AS PER CENSUS 2011)**

Description	Population	Percentage
Total Population	10597	100
Male Population	5318	50.18
Female Population	5279	49.82
Females/1000 Males	993	-
No. of households	2360	-
Family size, persons/family	4.5	-
Schedule caste	776	7.32
Schedule tribe	4661	43.98
Total literates	6702	63.24
Male literates	3826	71.94
Female literates	2876	54.48

Mostly the population is rural and the percentage of Scheduled Tribes is 43.98% and Schedule Castes is 7.32% of the total population. The male population exceeds female population. The average family size is 4.5 persons per family. The literacy level is 63.24% and it is lower among females.

Employment and occupation

A summary of employment pattern and occupation for the study area is presented in TABLE-7.

TABLE 7: SUMMARY OF EMPLOYMENT & OCCUPATION IN THE STUDY AREA

Description	Numbers	%
<i>Main workers</i>	3154	29.76
<i>Marginal workers</i>	1680	15.85
<i>Non-workers</i>	5763	54.38
Break-up of main workers		
Cultivators (%)	1575	49.94
Agricultural labours (%)	702	22.26
Household industries (%)	37	1.17
Other workers (%)	840	26.63
Total	3154	100
Break-up of marginal workers		
Cultivators (%)	321	19.11
Agricultural labours (%)	1134	67.50
Household industries (%)	13	0.77
Other workers (%)	212	12.62
Total	1680	100

2. iv) DESCRIPTION OF FLORA AND FAUNA:

To prepare a detail list of flora and fauna present in the project area and its 10 Km zone of influence, information available in the division office and the published literatures were referred. Field trips were arranged to the sites to note the presence of flora and fauna in both the project area and its zone of influence. Discussions were held with the inhabitants of the locality during the visits to the project site and its 10 Km zone of influence to collect the information on the presence of any additional faunal species present in the study area.

FLORAL DIVERSITY OF CORE ZONE

TREES			
Sl.No.	Local Name	Scientific Name	Family
1.	Akasia	<i>Acacia curculiformis</i>	Fabaceae
2.	Babul	<i>Acacia nilotica</i>	Fabaceae
3.	Bel	<i>Aegle marmelos</i>	Rutaceae
4.	Mamuri	<i>Antidesma diandrum</i>	Phyllanthaceae
5.	Kas	<i>Bridelia retusa</i>	Phyllanthaceae
6.	Kumbhi	<i>Careya arborea</i>	Lecythidaceae
7.	Kaitha	<i>Limonia acidissima</i>	Rutaceae
8.	Mai	<i>Lannea coromandelica</i>	Anacardiaceae
9.	Muhla	<i>Madhura indica</i>	Sapotaceae
10.	Kamalgundi	<i>Maliotus philippensis</i>	Euphorbiaceae
11.	Karanja	<i>Pongamia pinnata</i>	Fabaceae
12.	Kusum	<i>Schiechera oleosa</i>	Sapindaceae
13.	Kochila	<i>Strychnos nuxvomica</i>	Loganiaceae
14.	Katakai	<i>Strychnos potatorum</i>	Loganiaceae
15.	Lodha	<i>Symplocos racemosa</i>	Symplocaceae
16.	Kangada	<i>Xylia xylocarpa</i>	Fabaceae
17.	Char	<i>Buchanania lanzan</i>	Anacardiaceae
18.	Chikini	<i>Glochidion lanceolatum</i>	Phyllanthaceae
19.	Chota rai	<i>Dillenia aurea</i>	Dilleniaceae
20.	Chhuipatali	<i>Stereospermum angustifolium</i>	Bignoniaceae
21.	Dhaura	<i>Anogeissus latifolia</i>	Combretaceae
22.	Gandh palas	<i>Mitusa velutina</i>	Annonaceae
23.	Gendul	<i>Cochlospermum gossypium</i>	Bixaceae
24.	Jeuta	<i>Artocarpus lacucha</i>	Moraceae
25.	Kadamba	<i>Anthocephalus cadamba</i>	Rubiaceae
26.	Kadala	<i>Sterculia villosa</i>	Malvaceae
27.	Marda	<i>Macaranga peltata</i>	Euphorbiaceae
28.	Phasi	<i>Anogeissus acuminata</i>	Combretaceae

29.	Neem	<i>Azadirachta indica</i>	Meliaceae
30.	Panigambhari	<i>Trewia nudiflora</i>	Euphorbiaceae
31.	Panipatuli	<i>Lagerstroemia speciosa</i>	Lythraceae
32.	Patmossu	<i>Polyalthia cerasioides</i>	Annonaceae
33.	Hoom	<i>Miliusa tomentosa</i>	Annonaceae
34.	Pairamu	<i>Syzygium operculatum</i>	Myrtaceae
35.	Ritha	<i>Sapindus emarginatus</i>	Sapindaceae
36.	Salai	<i>Boswellia serrata</i>	Burseraceae
Shrubs			
1.	Ata	<i>Annona squamosa</i>	Annonaceae
2.	Marnul	<i>Antidesma diandrum</i>	Phyllanthaceae
3.	Narasingh khara	<i>Ardisia solanacea</i>	Primulaceae
4.	Bankulthi	<i>Atylosia scarabaeoides</i>	Fabaceae
5.	Arakha	<i>Crotalaria gigantea</i>	Apocynaceae
6.	Ankhukoli	<i>Carissa spinarum</i>	Apocynaceae
7.	Chakundi	<i>Cassia tora</i>	Fabaceae
8.	Arguna (odasamari)	<i>Cycas circinalis</i>	Cycadaceae
9.	Guakuli	<i>Diospyros ferrea</i>	Ebenaceae
10.	Kantasiyu	<i>Euphorbia nivulia</i>	Euphorbiaceae
11.	Giliri	<i>Indigofera pulchella</i>	Fabaceae
12.	Bhenta	<i>Limonia acidissima</i>	Rutaceae
13.	Kikichikanta	<i>Mimosa rubicaulis</i>	Fabaceae
14.	Kamini	<i>Murraya paniculata</i>	Rutaceae
15.	Bana tulasi	<i>Ocimum basilicum</i>	Lamiaceae
16.	Bankhajurl	<i>Phoenix acaulis</i>	Arecaceae
17.	Budel	<i>Spatholobus roxburghii</i>	Fabaceae
18.	Badichang	<i>Symphorema polyanthum</i>	Lamiaceae
19.	Regunia	<i>Vitex negundo</i>	Lamiaceae
20.	Rasanga	<i>Pargularia daemia</i>	Apocynaceae
21.	Kaskasi Jhari	<i>Ficus parasitica</i>	Moraceae
22.	Agnijhal	<i>Vernonia aspera</i>	Asteraceae
23.	Baincha	<i>Flagellaria indica</i>	Flagellariaceae
Herbs			
1.	Apamaranya	<i>Achyranthes aspera</i>	Amaranthaceae
2.	Pokasunga	<i>Ageratum conyzoides</i>	Asteraceae
3.	Mundha Saga	<i>Ailanthia nodiflora</i>	Amaranthaceae
4.	Bhuneem(chireta)	<i>Andrographis paniculata</i>	Acanthaceae
5.	Bhutamari	<i>Artemesia indica</i>	Lamiaceae
6.	Agara	<i>Argemone Mexicana</i>	Papaveraceae
7.	Rudrajata	<i>Aristolochia indica</i>	Aristolochiaceae
8.	Amarpoi	<i>Bryophyllum calycinum</i>	Crassulaceae
9.	Ganjaculia	<i>Celosia argentea</i>	Amaranthaceae

10.	Kansiri	<i>Commelina benghalensis</i>	Commelinaceae
11.	Gaigabara	<i>Costus speciosus</i>	Costaceae
12.	Amada	<i>Curcuma amada</i>	Zingiberaceae
13.	Kar-chasi	<i>Curcuma aromatica</i>	Zingiberaceae
14.	Dara palua	<i>Curcuma angustifolia</i>	Zingiberaceae
15.	Ganga Tulasi	<i>Hyptis suaveolens</i>	Lamiaceae
16.	Panitor	<i>Merremia umbellata</i>	Convolvulaceae
17.	Pepali	<i>Piper longum</i>	Piperaceae
18.	Bana sebatu	<i>Tridax procumbens</i>	Asteraceae
19.	Dandipohala	<i>Conscora decussata</i>	Gentianaceae
20.	Lajakoli	<i>Mimosa pudica</i>	Fabaceae
21.	Arkaranti	<i>Solanum surattense</i>	Solanaceae
Grasses			
1.	Jhadika grass	<i>Aristida setacea</i>	Poaceae
2.	Guguchia	<i>Chrysopogon aciculatus</i>	Poaceae
3.	Marvel grass	<i>Dichanthium annulatum</i>	Poaceae
4.	Nandi blue grass	<i>Dichanthium caricosum</i>	Poaceae
5.	Duba grass	<i>Cymbopogon dactylon</i>	Poaceae
6.	Spear grass	<i>Heteropogon contortus</i>	Poaceae
7.	Thatch grass	<i>Imperata cylindrica</i>	Poaceae
8.	Khas-khas	<i>Vetiveria zizanioides</i>	Poaceae
9.	Sabai	<i>Eulaliopsis binata</i>	Poaceae
Climbers			
1.	Kaincha	<i>Abrus precatorius</i>	Fabaceae
2.	Dantari	<i>Acacia pennata</i>	Fabaceae
3.	Malati	<i>Aganosma coryophyllata</i>	Apocynaceae
4.	Achinda	<i>Calycotris flaribunda</i>	Combretaceae
5.	Asadhua	<i>Capparis zeylanica</i>	Capparaceae
6.	Malkamni	<i>Celastrus paniculatus</i>	Celastraceae
7.	Akanbimchi	<i>Cissampelos pareira</i>	Menispermaceae
8.	Aturzi	<i>Combretum decandrum</i>	Combretaceae
9.	Gopka	<i>Cryptolepis buchananii</i>	Asclepiadaceae
10.	Anantamula	<i>Hemidesmus indicus</i>	Apocynaceae
11.	Baidanka	<i>Mucuna pruriens</i>	Fabaceae
12.	Bana kunduri	<i>Trichosanthes cucumerina</i>	Cucurbitaceae
13.	Makirla	<i>Trichosanthes tricuspidata</i>	Cucurbitaceae

14.	Barakoli	<i>Ziziphus aenaptera</i>	Rhamnaceae
15.	Raghchaar	<i>Argyria setosa</i>	Convolvulaceae
16.	Gla	<i>Entada scandens</i>	Fabaceae
17.	Kanta Alu	<i>Dioscorea glabra</i>	Dioscoreaceae
18.	Kamba Alu	<i>Dioscorea alata</i>	Dioscoreaceae
19.	Kosa Alu	<i>Dioscorea anguina</i>	Dioscoreaceae
20.	Mirigalendi	<i>Gnetum scandens</i>	Gnetaceae
21.	Muturi	<i>Smilax macrophylla</i>	Smilacaceae
22.	Pichhuli Noi	<i>Gouania tiliaefolia</i>	Rhamnaceae
23.	PasarLns	<i>Paederia scandens</i>	Rubiaceae
24.	Uturdi	<i>Pergularia extensa</i>	Apocynaceae
Bamboos			
1.	Badi bansa	<i>Bambusa nutans</i>	Poaceae
2.	Daba bans	<i>Bambusa arundinacea</i>	Poaceae

FAUNAL DIVERSITY OF CORE ZONE

Mammals							
Sl. No.	Local Name	English name	Scientific Name	Family	IUCN Status	Schedule as per WPA	
						WPA 2022	WPA 1972
1	Chuchundra	Gray musk shrew	<i>Suncus murinus</i>	Soricidae	LC	-	V
2	Musa	House rat	<i>Rattus rattus</i>	Muridae	LC	-	V
3	Musa	Indian garbills	<i>Tatera indica</i>	Muridae	LC	-	V
4	Musa	Long tailed tree mouse	<i>Vandeleuria oleracea</i>	Muridae	LC	-	V
5	Badudi	Short-nosed fruit bat	<i>Cynopterus sphinx</i>	Pteropodidae	LC	-	V
6	Musa	White tailed wood rat	<i>Rattus blanfordi</i>	Muridae	LC	-	V
7	Chemeri	Black boarded tomb bat	<i>Taphozous melanopogon</i>	Emballonuridae	LC	-	-
8	Gunduchimusa	Indian three striped squirrel	<i>Furambulus palmarum</i>	Sciuridae	LC	-	-
Reptiles							
Sl. No.	Local Name	English name	Scientific Name	Family	IUCN Status	WPA 2022	WPA 1972
1	Jh'ipiti	Bark gecko	<i>Hemidactylus</i>	Gekkonidae	-	-	-

			<i>leschenaultii</i>				
2	Mota lanjia jhitipiti	Fat tailed gecko	<i>Hemitheconyx caudalcinctus</i>	Eubtepharidae	LC	-	-
3	Endua	Indian garden lizard	<i>Calotes versicolor</i>	Agamidae	LC	-	-
4	Jhitipiti	Indian house gecko	<i>Hemidactylus flaviviridis</i>	Gekkonidae	LC	-	-
5	Jhitipiti	Rock gecko	<i>Hemidactylus maculatus</i>	Gekkonidae	LC	-	-

Amphibians

Sl. No.	Local Name	English name	Scientific Name	Family	IUCN Status	WPA 2022	WPA 1972
1	Luni Benga	Common Asian Toad	<i>Duttaphrynus melanostictus</i>	Bufo nidae	LC	-	-
2	Katha Benga	Marbled Toad	<i>Duttaphrynus stomaticus</i>	Bufo nidae	LC	-	-
3	Pam Benga	Paddy - field frog	<i>Fejervarya limpacharis</i>	Ranidae	LC	-	-
4	Nali Benga	Fungoid frog	<i>Hydrophylax malabarica</i>	Ranidae	LC	-	-
5	Branamani Benga	Indian Bull frog	<i>Hoplobatrachus tigerina</i>	Ranidae	LC	-	-

Birds

Sl. No.	Local Name	English name	Scientific Name	Family	IUCN Status	WPA 2022	WPA 1972
1	Sua	Alexandrine Parakeet	<i>Psittacula eupatria</i>	Psittaculidae	NT	II	IV
2	Ghukalika	Asian Pied Starling (Pied Myna)	<i>Sturnus contra</i>	Sturnidae	LC	II	IV
3	Baga	Cattle Egret	<i>Bubulcus ibis</i>	Ardeidae	LC	II	IV
4	Bani	Common Myna	<i>Acridotheres tristis</i>	Sturnidae	LC	II	IV
5	Gharachata	House Sparrow	<i>Passer domesticus</i>	Passeridae	LC	II	IV
6	Baga	Little Egret	<i>Egretta garzetta</i>	Ardeidae	LC	II	IV
7	Bana Kukuda	Red Junglefowl	<i>Gallus gallus</i>	Phasianidae	LC	II	IV
8	Gobarachade	Red vented Bulbul	<i>Pycnonotus cafer</i>	Pycnonotidae	LC	II	IV
9	Pahadi Bulbul	Red whiskered Bulbul	<i>Pycnonotus jocosus</i>	Pycnonotidae	LC	II	IV
10	Phutki	Common Tailorbird	<i>Orthotomus sutorius</i>	Cisticolidae	LC	II	IV
11	Kumbhatua	Greater Coucal	<i>Centropus sinensis</i>	Cuculidae	LC	II	IV
12	Bhadaba	Indian Roller	<i>Coracias benghalensis</i>	Coraciidae	LC	II	IV

13	Damera kau	Large-billed Crow	<i>Corvus macrorhynchos</i>	Corvidae	LC	II	IV
14	Pani kua	Little Cormorant	<i>Phalacrocorax niger</i>	Phalacrocoracidae	LC	II	IV
15	Chataka	Little Swift	<i>Apus affinis</i>	Apodidae	LC	II	IV
16	Kau	House Crow	<i>Corvus splendens</i>	Corvidae	LC	V	V

FLORAL DIVERSITY OF ZONE OF INFLUENCE

TREES			
Sl.No.	Local Name	Scientific Name	Family
1.	Akasia	<i>Acacia auriculiformis</i>	Fabaceae
2.	Babul	<i>Acacia nilotica</i>	Fabaceae
3.	Bel	<i>Aegle marmelos</i>	Rutaceae
4.	Ankila	<i>Alangium lamarkii</i>	Cornaceae
5.	Bheru	<i>Chloroxylon swietenia</i>	Rutaceae
6.	Barabakulia	<i>Dalbergia paniculata</i>	Fabaceae
7.	Anla	<i>Emblia affinis</i>	Euphorbiaceae
8.	Barz	<i>Ficus bengalensis</i>	Moraceae
9.	Aswastha	<i>Ficus religiosa</i>	Moraceae
10.	Amba	<i>Mangifera indica</i>	Anacardiaceae
11.	Achlu	<i>Morinda tinctoria</i>	Rubiaceae
12.	Bandhan	<i>Ougeinia oojainensis</i>	Fabaceae
13.	Biya	<i>Pterocarpus marsupium</i>	Fabaceae
14.	Bhalia	<i>Semecarpus anacardium</i>	Anacardiaceae
15.	Ambada	<i>Spondias pinnata</i>	Anacardiaceae
16.	Arjuna	<i>Terminalia arjuna</i>	Combretaceae
17.	Bahada	<i>Terminalia bellerica</i>	Combretaceae
18.	Asana	<i>Terminalia tomentosa</i>	Combretaceae
19.	Barakoli	<i>Ziziphus mauritiana</i>	Rhamnaceae
20.	Amaralata	<i>Bauhinia racemosa</i>	Fabaceae
21.	Chakunda	<i>Cassia siamea</i>	Fabaceae
22.	Baruna	<i>Crotona religiosa</i>	Caoparaceae
23.	Asoka	<i>Saraca asoka</i>	Fabaceae
24.	Baghamari	<i>Bauhinia retusa</i>	Fabaceae
25.	Bankapasia	<i>Kydia calycina</i>	Malvaceae
26.	Gadkhair	<i>Acacia lenticularis</i>	Fabaceae
27.	Gohira	<i>Acacia leucophloea</i>	Fabaceae
28.	Chhatian	<i>Astonia schiolaris</i>	Apocynaceae
29.	Hinjal	<i>Barringtonia acutangula</i>	Lecythidaceae
30.	Gaigulia	<i>Dimorphocalyx glabellus</i>	Euphorbiaceae
31.	Damghurudu	<i>Diospyros montana</i>	Ebenaceae
32.	Dimiri	<i>Ficus retusa</i>	Moraceae
33.	Gurudu	<i>Gardenia gummifera</i>	Rubiaceae
34.	Gamhari	<i>Gmelina arborea</i>	Lamiaceae
35.	Dhaman	<i>Grewia tiliifolia</i>	Malvaceae

36.	Dhauranja	<i>Holoptelea integrifolia</i>	Ulmaceae
37.	Jaisanda	<i>Litsea glutinosa</i>	Lauraceae
38.	Champa	<i>Magnolia champaca</i>	Magnoliaceae
39.	Girdhini(genduli)	<i>Sterculia urens</i>	Malvaceae
40.	Jamu	<i>Syzygium cumini</i>	Myrtaceae
41.	Harida	<i>Terminalia chebula</i>	Combretaceae
42.	Ghoralaranja	<i>Albizia chinensis</i>	Fabaceae
43.	Damkurdu	<i>Gardenia latifolia</i>	Rubiaceae
44.	Eucalyptus (Patas)	<i>Eucalyptus sp.</i>	Myrtaceae
45.	Khair	<i>Acacia catechu</i>	Fabaceae
46.	Kuruma (Haldu)	<i>Adina cordifolia</i>	Rubiaceae
47.	Mahal	<i>Ailanthus excelsa</i>	Simaroubaceae
48.	Sirisa(white)	<i>Albizia procera</i>	Fabaceae
49.	Mamuri	<i>Antidesma diandrum</i>	Phyllanthaceae
50.	Kasi	<i>Bridelia retusa</i>	Phyllanthaceae
51.	Kumbhi	<i>Careya arborea</i>	Lecythidaceae
52.	Karoca	<i>Cleistanthus collinus</i>	Phyllanthaceae
53.	Kendu	<i>Diospyros melanoxyton</i>	Ebenaceae
54.	Makharakendu	<i>Diospyros embryopteris</i>	Ebenaceae
55.	Jari	<i>Ficus retusa</i>	Moraceae
56.	Khur,ndu	<i>Gardenia turgida</i>	Rubiaceae
57.	Kurei	<i>Holarhena antidysenterica</i>	Apocynaceae
58.	Kansa	<i>Hymenodictyon excelsum</i>	Rubiaceae
59.	Kaitha	<i>Limonia acidissima</i>	Rutaceae
60.	Mai	<i>Lannea coromandelica</i>	Anacardiaceae
61.	Mahula	<i>Madhuca indica</i>	Sapotaceae
62.	Kamalgundi	<i>Mollotus philippensis</i>	Euphorbiaceae
63.	Karanja	<i>Pongamia pinnata</i>	Fabaceae
64.	Kusum	<i>Schleichera oleosa</i>	Sapindaceae
65.	Kochila	<i>Strychnos nuxvomica</i>	Loganiaceae
66.	Katakai	<i>Strychnos potatorum</i>	Loganiaceae
67.	Lodha	<i>Symplocos racemosa</i>	Symplocaceae
68.	Kangada	<i>Xylin xylocarpa</i>	Fabaceae
69.	Limbur moi	<i>Bursera serrata</i>	Burseraceae
70.	Char	<i>Buchanania lanzan</i>	Anacardiaceae
71.	Cnauti	<i>Cassia glauca</i>	Fabaceae
72.	Chkmi	<i>Glacridion lanceolatum</i>	Phyllanthaceae
73.	Chata rai	<i>Dillenia aurea</i>	Dilleniaceae
74.	Chhuipatali	<i>Stereospermum angustifolium</i>	Bignoniaceae
75.	Dhaura	<i>Anogeissus latifolia</i>	Combretaceae
76.	Gandh palas	<i>Mitusa velutina</i>	Annonaceae
77.	Genuli	<i>Cochlospermum gossypium</i>	Bixaceae
78.	Garakhari	<i>Acacia ferruginea</i>	Fabaceae
79.	Charita	<i>Zizypus glaberrima</i>	Rhamnaceae
80.	Jeuta	<i>Artocarpus lacucha</i>	Moraceae
81.	Kadamba	<i>Anthocephalus cadamba</i>	Rubiaceae
82.	Kudala	<i>Sterculia villosa</i>	Malvaceae

83.	Manda	<i>Macaranga peltata</i>	Euphorbiaceae
84.	Phasi	<i>Anogeissus acuminata</i>	Combretaceae
85.	Neem	<i>Azadirachta indica</i>	Meliaceae
86.	Simili	<i>Bombax ceiba</i>	Malvaceae
87.	Palas	<i>Butea monasperma</i>	Fabaceae
88.	Rai	<i>Dillenia pentagyna</i>	Dilleniaceae
89.	Pitainoi	<i>Garuga pinnata</i>	Burseraceae
90.	Sidha	<i>Lagerstroemia parviflora</i>	Lythraceae
91.	Mundi	<i>Mitragyna parviflora</i>	Rubiaceae
92.	Sa!	<i>Shorea robusta</i>	Dipterocarpaceae
93.	Rohini	<i>Saymsida febrifuga</i>	Meliaceae
94.	Sahada	<i>Streptus asper</i>	Moraceae
95.	Teak (Saguan)	<i>Tectona grandis</i>	Lamiaceae
96.	Pitakarichlo	<i>Wrightia arborea</i>	Apocynaceae
97.	Mukha	<i>Schrebera swietenoides</i>	Oleaceae
98.	Michukunda	<i>Pterospermum acerifolium</i>	Malvaceae
99.	Panasa	<i>Artocarpus integrifolius</i>	Moraceae
100.	Palachua	<i>Erythrina indica</i>	Fabaceae
101.	Mirigachara	<i>Grewia elastica</i>	Malvaceae
102.	Panigambhari	<i>Trewia nudiflora</i>	Euphorbiaceae
103.	Panpatuli	<i>Lagerstroemia speciosa</i>	Lythraceae
104.	Patmassu	<i>Polyalthia cerasioides</i>	Annonaceae
105.	Hoom	<i>Millettia tomentosa</i>	Annonaceae
106.	Poichandia	<i>Putranjiva roxburghii</i>	Putranjivaceae
107.	Pojamu	<i>Syzygium operculatum</i>	Myrtaceae
108.	Ritha	<i>Sapindus emarginatus</i>	Sapindaceae
109.	Salai	<i>Boswellia serrata</i>	Burseraceae
110.	Salapa	<i>Caryota urens</i>	Arecaceae
111.	Sajana	<i>Morinda pterygosperma</i>	Moringaceae
112.	Siju	<i>Euphorbia rayleana</i>	Euphorbiaceae
113.	Sirisa (Black)	<i>Albizia lebbek</i>	Fabaceae
114.	Tala	<i>Borassus flabellifer</i>	Arecaceae
115.	Suncari	<i>Cassia fistula</i>	Fabaceae
116.	Sissu	<i>Dolbergia sissou</i>	Fabaceae
117.	Tambal	<i>Ficus hispida</i>	Moraceae
118.	Tangar Champa	<i>Ochna obtusata</i>	Ochnaceae
119.	Thelku	<i>Randia malabarica</i>	Rubiaceae
120.	Tentuti	<i>Tamarindus indica</i>	Fabaceae
121.	Rakta Chandan	<i>Pterocarpus satelinus</i>	Fabaceae
122.	Telkuruma	<i>Ixora arborea</i>	Rubiaceae
123.	Toon	<i>Cedrela toona</i>	Meliaceae
Bamboos			
1.	Badi bansa	<i>Bambusa nutans</i>	Poaceae
2.	Daba bans	<i>Bambusa arundinacea</i>	Poaceae
3.	Saila	<i>Dendrocalamus strictus</i>	Poaceae
Shrubs			
1.	Ata	<i>Annona squamosa</i>	Annonaceae

2.	Mamuri	<i>Antidesma diandrum</i>	Phyllanthaceae
3.	Narasingh khara	<i>Ardisia solanacea</i>	Primulaceae
4.	Bankulthi	<i>Atylosia scarabaeoides</i>	Fabaceae
5.	Arakha	<i>Calotropis gigantea</i>	Apocynaceae
6.	Ankhukoli	<i>Carissa spinarum</i>	Apocynaceae
7.	Chakundi	<i>Cassia tora</i>	Fabaceae
8.	Arguna(odasamari)	<i>Cycas circinalis</i>	Cycadaceae
9.	Guakuli	<i>Diospyros ferrea</i>	Ebenaceae
10.	Kantasiju	<i>Euphorbia nivulia</i>	Euphorbiaceae
11.	Gillri	<i>Indigofera pulchella</i>	Fabaceae
12.	Bhenta	<i>Limonia acidissima</i>	Rutaceae
13.	Gangai	<i>Melastoma malabathricum</i>	Melastomataceae
14.	Kikichikanta	<i>Mimosa rubicaulis</i>	Fabaceae
15.	Kamini	<i>Murraya paniculata</i>	Rutaceae
16.	Bana tulasi	<i>Ocimum basilicum</i>	Lamiaceae
17.	Badurli	<i>Oxalis scandens</i>	Oxalaceae
18.	Bankhajuri	<i>Phoenix acaulis</i>	Arecaceae
19.	Budel	<i>Spatholobus roxburghii</i>	Fabaceae
20.	Badichang	<i>Symphorema polyanthum</i>	Lamiaceae
21.	Begunta	<i>Vitex negundo</i>	Vitaceae
22.	Basanga	<i>Perularia daemia</i>	Apocynaceae
23.	Kaskasi Jhari	<i>Ficus parasitica</i>	Moraceae
24.	Agnihal	<i>Vernonia aspera</i>	Asteraceae
25.	Baibiring	<i>Embelia robusta</i>	Primulaceae
26.	Baincha	<i>Flagellaria indica</i>	Flagellariaceae
27.	Bana chirelia	<i>Leea asiatica</i>	Vitaceae
28.	Barsamali	<i>Jasminum sambac</i>	Oleaceae
29.	Gangasiuli	<i>Nyctanthes arbor-tristis</i>	Oleaceae
30.	Dalsingha	<i>Canthium glabrum</i>	Rubiaceae
31.	Ohatki	<i>Woodfordia fruticosa</i>	Lythraceae
32.	Jari	<i>Schefflera venulosa</i>	Araliaceae
33.	Jhumpuri	<i>Phyllanthus spinosa</i>	Moraceae
34.	Jujoka	<i>Commiphora caudata</i>	Burseraceae
35.	Kakusia	<i>Strobilanthes scaber</i>	Acanthaceae
36.	Lajakuli	<i>Mimosa pudica</i>	Fabaceae
37.	Bholapadi	<i>Lantana camara</i>	Verbenaceae
38.	Murimuri	<i>Helicteres isora</i>	Malvaceae
39.	Macanga	<i>Loranthus longiflorus</i>	Loranthaceae
40.	Patalagaruda	<i>Rauwolfia serpentina</i>	Apocynaceae
41.	Kala bahama	<i>Blepharis maderaspatensis</i>	Acanthaceae
42.	Rani cartakathi	<i>Flemingia chappar</i>	Fabaceae
43.	Sonaragoda	<i>Grewia helicterifolia</i>	Malvaceae
44.	Tulsi	<i>Ocimum sanctum</i>	Lamiaceae
45.	Pakasunga	<i>Pogostemon benghalensis</i>	Lamiaceae
46.	Lalberela	<i>Sida rhombifolia</i>	Malvaceae
47.	Phanaphana	<i>Oroxylum indicum</i>	Bignoniaceae
48.	Potua	<i>Cotonaregam nutans</i>	Rubiaceae

49.	Rani dantakathi	<i>Flemingia strobilifera</i>	Fabaceae
50.	Siju	<i>Euphorbia royleana</i>	Euphorbiaceae
51.	Koner	<i>Halarrhena antidysenterica</i>	Apocynaceae
52.	Kumta (Telgunia)	<i>Clerodendrum viscosum</i>	Lamiaceae
Herbs			
1.	Apamaranga	<i>Achyranthes aspera</i>	Amaranthaceae
2.	Pokasunga	<i>Ageratum conyzoides</i>	Asteraceae
3.	Mundia Saga	<i>Allmania nodiflora</i>	Amaranthaceae
4.	Kurant	<i>Ammannia baccifera</i>	Lythraceae
5.	Bhuineem(chirella)	<i>Andragraphis paniculata</i>	Acanthaceae
6.	Bhutamari	<i>Anisomeles indica</i>	Lamiaceae
7.	Agara	<i>Argemone Mexicana</i>	Papaveraceae
8.	Rudrajata	<i>Aristolochia indica</i>	Aristolochiaceae
9.	Amarpoi	<i>Bryophyllum calycinum</i>	Crassulaceae
10.	Rhun Chakunda	<i>Cassia obtusifolia</i>	Caesalpiniaceae
11.	Gantachufia	<i>Celosia argentea</i>	Amaranthaceae
12.	Kansiri	<i>Commelina benghalensis</i>	Commelinaceae
13.	Gaigohara	<i>Costus speciosus</i>	Costaceae
14.	Amada	<i>Curcuma amada</i>	Zingiberaceae
15.	Karkhasi	<i>Curcuma aromatica</i>	Zingiberaceae
16.	Bana palua	<i>Curcuma angustifolia</i>	Zingiberaceae
17.	Samdulan	<i>Elephantopus scaber</i>	Asteraceae
18.	Ganga Tulasi	<i>Hyptis suaveolens</i>	Lamiaceae
19.	Panilo	<i>Merremia umbellata</i>	Convolvulaceae
20.	Pepali	<i>Piper longum</i>	Piperaceae
21.	Murga	<i>Sansevieria roxburghiana</i>	Asparagaceae
22.	Bana sobati	<i>Tripsax procumbens</i>	Asteraceae
23.	Bana Bherdi	<i>Triumfetta rhomboidea</i>	Malvaceae
24.	Dandipohala	<i>Conscora decussate</i>	Gentianaceae
25.	Lajakoli	<i>Mimosa pudica</i>	Fabaceae
26.	Ankaranti	<i>Solanum surattense</i>	Solanaceae
Grasses			
1.	Jhadika grass	<i>Aristida setacea</i>	Poaceae
2.	Guechra	<i>Chrysopogon aciculatus</i>	Poaceae
3.	Marvel grass	<i>Dichanthium annulatum</i>	Poaceae
4.	Nandi blue grass	<i>Dichanthium caricatum</i>	Poaceae
5.	Duba grass	<i>Cynodon dactylon</i>	Poaceae
6.	Spear grass	<i>Heteropogon contortus</i>	Poaceae
7.	Thatch grass	<i>Imperata cylindrica</i>	Poaceae
8.	Khas-khas	<i>Yeriveria zizanioides</i>	Poaceae
9.	Sabaal	<i>Eriolobos finata</i>	Prunaceae
Climbers			
1.	Kaircha	<i>Abrus precatorius</i>	Fabaceae
2.	Dantari	<i>Acacia pennata</i>	Fabaceae
3.	Malati	<i>Aganosma caryophyllata</i>	Apocynaceae
4.	Satabail	<i>Asparagus racemosus</i>	Asparagaceae

5.	Siali	<i>Bauhinia vahlii</i>	Fabaceae
6.	Neipalasa	<i>Buteo parviflora</i>	Fabaceae
7.	Beta	<i>Colamus guruba</i>	Arecaceae
8.	Achinda	<i>Calycopteris floribunda</i>	Combretaceae
9.	Asadhua	<i>Capparis zeylanica</i>	Capparaceae
10.	Malkamni	<i>Celastrus paniculatus</i>	Celastraceae
11.	Akanblindii	<i>Cissampelos pareira</i>	Menispermaceae
12.	Atundi	<i>Combretum decandrum</i>	Combretaceae
13.	Gopka	<i>Cryptolepis buchananii</i>	Asclepiadaceae
14.	Pita Alu	<i>Dioscorea bulbifera</i>	Dioscoreaceae
15.	Pani Alu	<i>Dioscorea oppositifolia</i>	Dioscoreaceae
16.	Bana Alu	<i>Dioscorea pentaphylla</i>	Dioscoreaceae
17.	Tunga Alu	<i>Dioscorea wallichii</i>	Dioscoreaceae
18.	Anantamula	<i>Hemidesmus indicus</i>	Apocynaceae
19.	Suamnoi	<i>Ichnocarpus frutescens</i>	Apocynaceae
20.	Badanka	<i>Mucuna pruriens</i>	Fabaceae
21.	Bhadalia	<i>Opilia amentacea</i>	Opiliaceae
22.	Handiphuta	<i>Pueraria tuberosa</i>	Fabaceae
23.	Muturi	<i>Smilax perfoliata</i>	Smilacaceae
24.	Sichhuati	<i>Tragia involucrata</i>	Euphorbiaceae
25.	Bana kunduri	<i>Trichosanthes cucumerina</i>	Cucurbitaceae
26.	Makirla	<i>Trichosanthes tricuspidata</i>	Cucurbitaceae
27.	Arkala	<i>Millettia auriculata</i>	Fabaceae
28.	Latanageswar	<i>Hiptage madagblata</i>	Malpighiaceae
29.	Maharada	<i>Canavalia ensiformis</i>	Fabaceae
30.	Korondia Alu	<i>Dioscorea belophylla</i>	Dioscoreaceae
31.	Baghchad	<i>Aryteria setosa</i>	Convolvulaceae
32.	Gila	<i>Entada scandens</i>	Fabaceae
33.	Gudmani	<i>Gymnema sylvestre</i>	Apocynaceae
34.	Kamba Alu	<i>Dioscorea alata</i>	Dioscoreaceae
35.	Kosa Alu	<i>Dioscorea anguina</i>	Dioscoreaceae
36.	Mirigalendi	<i>Gnetum scandens</i>	Gnetaceae
37.	Muturi	<i>Smilax macrophylla</i>	Smilacaceae
38.	Pichhulr Noi	<i>Gouania lilicefolia</i>	Rhamnaceae
39.	Pasaruns	<i>Paederia scandens</i>	Rubiaceae
40.	Uturdi	<i>Pergularia extensa</i>	Apocynaceae

FAUNAL DIVERSITY OF ZONE OF INFLUENCE

Mammals							
Sl. No.	Local Name	English name	Scientific Name	Family	IUCN Status	Schedule as per WPA	
						WPA 2022	WPA 1972
1.	Hati	Asian Elephant	<i>Elephas maximus</i>	Elephantidae	EN	I	I
2.	Beleramusa	Black Giant Squirrel	<i>Ratufa bicolor</i>	Sciuridae	NT	I	-

3.	Kokisiali	Bengal fox	<i>Vulpes bengalensis</i>	Canidae	LC	I	I
4.	Brajrakapta	Indian pangolin	<i>Manis crassicaudata</i>	Manidae	EN	I	I
5.	Bhalu	Indian Sloth Bear	<i>Melursus ursinus</i>	Ursidae	VU	I	I
6.	Gurardi	Indian Spotted Chevrotain	<i>Moschiola indica</i>	Tragulidae	LC	I	I
7.	Salipatani	Common palm civet	<i>Paradoxurus hermaphrodites</i>	Viverridae	LC	I	II
8.	Blua	Golden jackal	<i>Canis aureus</i>	Canidae	LC	I	II
9.	Nepali Musa	Indian giant squirrel	<i>Ratufa indica</i>	Sciuridae	LC	I	II
10.	Hatia Neula	Indian grey mongoose	<i>Urva edwardsii</i>	Herpestidae	LC	I	II
11.	Banabiradi (Kalasa)	Jungle cat	<i>Felis chaus Schreber</i>	Felidae	LC	I	II
12.	Sallpatani	Small Indian civet	<i>Viverricula indica</i>	Viverridae	LC	I	II
13.	Kuji Neula	Small Indian mongoose	<i>Urva auropunctatus</i>	Herpestidae	LC	I	II
14.	Odha	Smooth-coated otter	<i>Lutrogale perspicillata</i>	Mustelidae	VU	I	II
15.	Heta Bagha	Indian Spotted Hyaena	<i>Hyaena hyaena</i>	Hyaenidae	NT	I	III
16.	Sambar	Sambar	<i>Cervus unicolor</i>	Cervidae	VU	I	III
17.	Kutura	Barking deer	<i>Muntiacus vaginalis</i>	Cervidae	LC	I	III
18.	Jhinka	Indian crested porcupine	<i>Hystrix indica</i>	Hystriidae	LC	I	IV
19.	Jlanu Mankaca	Gray langur	<i>Presbytis entellus</i>	Cercopitheciidae	LC	II	I
20.	Pati Mankada	Rhesus monkey	<i>Macaca mulatta</i>	Cercopitheciidae	LC	II	II
21.	Harina	Spotted deer / Chital	<i>Axis axis</i>	Cervidae	LC	II	II
22.	Barana	Wild pig	<i>Sus scrofa</i>	Suidae	LC	II	III
23.	Thekua	Indian hare	<i>Lepus nigricollis</i>	Leporidae	LC	II	IV
24.	Gunduchimusa	Five-striped squirrel	<i>Funambulus pennanti</i>	Sciuridae	LC	-	IV
25.	Chuchundra	Gray musk shrew	<i>Suncus murinus</i>	Soricidae	LC	-	V
26.	Musa	House rat	<i>Rattus rattus</i>	Muridae	LC	-	V
27.	Musa	Indian garbills	<i>Tatera indica</i>	Muridae	LC	-	V
28.	Musa	Long tailed tree mouse	<i>Vandeleuria oleracea</i>	Muridae	LC	-	V
29.	Badudi	Short-nosed fruit bat	<i>Cynopterus sphinx</i>	Pteropodidae	LC	-	V
30.	Musa	White tailed	<i>Rattus balfordi</i>	Muridae	LC	-	V

		wood rat					
31.	Chemeri	Black bearded tomb bat	<i>Taphozous melanopogon</i>	Emballonuridae	LC	-	-
32.	Gunduchimusa	Indian three striped squirrel	<i>Funambulus palmarum</i>	Sciuridae	LC	-	-

Reptiles

Sl. No.	Local Name	English name	Scientific Name	Family	IUCN Status	WPA 2022	WPA 1972
1.	Godhi	Bengal monitor	<i>Varanus bengalensis</i>	Varanidae	NT	I	I
2.	Ajagara	Indian Rock python	<i>Python molurus</i>	Pythonidae	NT	I	I
3.	Pani Dhand	Checkered keelback	<i>Xenochrophis piscator</i>	Colubridae	NE	I	II
4.	Bahunpi Endua	Indian Chameleon	<i>Chamaeleo zeylanicus</i>	Chamaeleonidae	LC	I	II
5.	Dhamana	Indian Rat snake	<i>Ptyas mucosa</i>	Colubridae	LC	I	II
6.	Tampa	Monocellate cobra	<i>Naja kaouthia</i>	Elapidae	LC	I	II
7.	Dhanda	Russet's viper	<i>Daboia russelii</i>	Viperidae	NE	I	II
8.	Gokhar	Spectacled cobra	<i>Naja naja</i>	Elapidae	LC	I	II
9.	Champeineula	Bibron's Skink	<i>Eutropis bibronii</i>	Scincidae	NT	I	-
10.	Telia Sapa	Bamboo pit viper	<i>Craspedocephalus grammurus</i>	Viperidae	LC	II	II
11.	Rana	Banded krait	<i>Bungarus fasciatus</i>	Elapidae	LC	II	II
12.	Chici	Common krait	<i>Bungarus caeruleus</i>	Elapidae	NE	II	II
13.	Telia Sapa	Common blind snake	<i>Indotyphlops brahminus</i>	Typhlopidae	LC	II	-
14.	Boda	Common sanc boa	<i>Eryx conicus</i>	Boidae	NT	II	-
15.	Kandanab	Vine snake	<i>Ahetulla nasuta</i>	Colubridae	LC	II	-
16.	Endua	Indian garden lizard	<i>Calotes versicolor</i>	Agamidae	LC	-	-
17.	Jhutipiti	Indian house gecko	<i>Hemidactylus flaviviridis</i>	Gekkonidae	LC	-	-

Amphibians

Sl. No.	Local Name	English name	Scientific Name	Family	IUCN Status	WPA 2022	WPA 1972
1.	Luni Benga	Common Asian Toad	<i>Duttaphrynus melanostictus</i>	Bufoinae	LC	-	-
2.	Katha Benga	Marbled Toad	<i>Duttaphrynus stomaticus</i>	Bufoinae	LC	-	-
3.	Pani Benga	Skipping frog	<i>Euphlyctis cyanoblyctis</i>	Ranidae	LC	-	-

4.	Pani Benga	Paddy - field frog	<i>Fejervarya limncharis</i>	Ranidae	LC	-	-
5.	Brahamani Benga	Indian Bull frog	<i>Haplobatrachus tigerina</i>	Ranidae	LC	-	-
Birds							
Sl. No.	Local Name	English name	Scientific Name	Family	IUCN Status	WPA 2022	WPA 1972
1.	Sari	Common Hill Myna	<i>Gracula reevesiana</i>	Sturnidae	LC	I	IV
2.	Pecha	Eurasian Eagle owl	<i>Bubo bubo</i>	Strigidae	LC	I	IV
3.	Bana Kukuda	Gray Jungle fowl	<i>Gallus sonneratii</i>	Phasianidae	LC	I	IV
4.	Sua	Alexandrine Parakeet	<i>Psittacula eupatria</i>	Psittaculidae	NT	II	IV
5.	Ghukulika	Asian Pied Starling (Pied Myna)	<i>Sturnus contra</i>	Sturnidae	LC	II	IV
6.	Gunduri	Barred Buttonquail	<i>Turnix suscitator</i>	Turnicidae	LC	II	IV
7.	Baya	Baya Weaver	<i>Ploceus philippinus</i>	Ploceidae	LC	II	IV
8.	Kajalpati	Black Drongo (King crow)	<i>Dicrurus macrocerus</i>	Dicruridae	LC	II	IV
9.	Nahaka Sua	Blossom headed Parakeet	<i>Psittacula cyanocephala</i>	Psittaculidae	LC	II	IV
10.	Baga	Cattle Egret	<i>Bubulcus ibis</i>	Ardeidae	LC	II	IV
11.	Kunda	Common Bulbler	<i>Turdoides caudatus</i>	Eurostichidae	LC	II	IV
12.	Bani	Common Myna	<i>Acridotheres tristis</i>	Sturnidae	LC	II	IV
13.	Deulipara	Common Pigeon	<i>Columba livia</i>	Columbidae	LC	II	IV
14.	Gharachata	House Sparrow	<i>Passer domesticus</i>	Passeridae	LC	II	IV
15.	Kantia Baga	Indian Pond Heron	<i>Ardeola grayii</i>	Ardeidae	LC	II	IV
16.	Baga	Little Egret	<i>Egretta garzetta</i>	Ardeidae	LC	II	IV
17.	Hansa Rani	Little grebe	<i>Podiceps ruficollis capensis</i>	Podicipedidae	LC	II	IV
18.	Milakantha	Oriental Magpie Robin	<i>Copsychus saularis</i>	Muscicapidae	LC	II	IV
19.	Machharanka	Pied Kingfisher	<i>Ceryle rudis</i>	Alcedinidae	LC	II	IV
20.	Bana Kukuda	Red Junglefowl	<i>Gallus gallus</i>	Phasianidae	LC	II	IV
21.	Gabarachadei	Red vented Bulbul	<i>Pycnonotus cafer</i>	Pycnonotidae	LC	II	IV
22.	Pahadi Bulbul	Red whiskered Bulbul	<i>Pycnonotus jocosus</i>	Pycnonotidae	LC	II	IV

23.	Chandana Sua	Rose ringed Parakeet	<i>Psittacula krameri</i>	Psittaculidae	LC	II	IV
24.	Kapota	Spotted Dove	<i>Streptopelia chinensis</i>	Columbidae	LC	II	IV
25.	Pecha	Spotted Owlet	<i>Athene brama</i>	Strigidae	LC	II	IV
26.	Kathakhumba	Pigmy Woodpecker	<i>Picoides nortus</i>	Picidae	LC	II	IV
27.	Gendalia	Asian Openbill	<i>Anastomus oscitans</i>	Ciconiidae	LC	II	IV
28.	Phutki	Common Tailorbird	<i>Orthotomus sutorius</i>	Cisticolidae	LC	II	IV
29.	Kapota	Emerald Dove	<i>Chalcophaps indica</i>	Columbidae	LC	II	IV
30.	Kumbhatua	Greater Couca.	<i>Centropus sinensis</i>	Cuculidae	LC	II	IV
31.	Bhadalia	Indian Roller	<i>Coracias benghalensis</i>	Coraciidae	LC	II	IV
32.	Damra kau	Large-billed Crow	<i>Corvus macrorhynchos</i>	Corvidae	LC	II	IV
33.	Pani kau	Little Cormorant	<i>Phalacrocorax niger</i>	Phalacrocoracidae	LC	II	IV
34.	Chataka	Little Swift	<i>Apus affinis</i>	Apodidae	LC	II	IV
35.	Kau	House Crow	<i>Corvus splendens</i>	Corvidae	LC	-	V

Core zone:

Flora- A total of 36 species of trees, 23 species of shrubs, 21 species of herbs, 9 species of grasses, 24 species of climbers, & 2 species of bamboo have been enlisted inside the project area.

Fauna- There are 8 species of mammals, 5 species of reptiles, 5 species of amphibians and 16 species of birds present in the core zone. Fauna in plant area is less as compared to buffer area.

Zone of Influence:

Flora- A total of 123 species of tree, 3 species of bamboo, 52 species of shrubs, 26 species of herbs, 40 species of climbers and 9 species of grasses are enlisted as per authenticated list of flora.

Fauna- There are 32 species of mammals (including the Asian elephant), 17 species of reptiles, 5 species of amphibians and 35 species of birds enlisted from the zone of influence of this project.

Livestock: Villagers rear cows, goats, buffalos, sheeps, hens etc. for poultry, milk, egg etc. for their consumption and secondary source of household income.

Details of Endemic, threatened and Scheduled Species:

As per the field study, no endemic fauna is found within the core or buffer area. As far as, Schedule-I species are concerned (Table-8), a total of 30 fauna. species including 18 no. of mammals, 9 no. of reptiles and 3 no. of birds are present in the project site.

As regards the IUCN Status of the aforesaid species, Asian Elephant & Indian pangolin are listed as endangered species (EN), Indian Sloth Bear, Smooth-coated otter and Sambar are listed under vulnerable category (VU), Black Giant Squirrel, Indian Spotted Hyaena, Bengal monitor, Indian Rock python and Bibron's Skink are listed as near threatened (NT) and rest 18 species are categorised as least concerned (LC).

TABLE 8: LIST OF SCHEDULE-I SPECIES INDICATING THEIR IUCN STATUS

Sl. No.	English name	Scientific Name	IUCN Status
Mammals			
1.	Asian Elephant	<i>Elephas maximus</i>	EN
2.	Black Giant Squirrel	<i>Ratufa bicolor</i>	NT
3.	Bengal fox	<i>Vulpes bengalensis</i>	LC
4.	Indian pangolin	<i>Manis crassicaudata</i>	EN
5.	Indian Sloth Bear	<i>Melursus ursinus</i>	VU
6.	Indian Spotted Chevrotail	<i>Moschiola indica</i>	LC
7.	Common palm civet	<i>Paradoxurus hermaphrodites</i>	LC
8.	Golden jackal	<i>Canis aureus</i>	LC
9.	Indian giant squirrel	<i>Ratufa indica</i>	LC
10.	Indian grey mongoose	<i>Urva edwardsii</i>	LC
11.	Jungle cat	<i>Felis chaus Schreber</i>	LC
12.	Small Indian civet	<i>Viverricula indica</i>	LC
13.	Small Indian mongoose	<i>Urva ruropunctatus</i>	LC
14.	Smooth coated otter	<i>Lutrogale perspicillata</i>	VU
15.	Indian Spotted Hyaena	<i>Hyaena hyaena</i>	NT
16.	Sambar	<i>Cervus unicolor</i>	VU
17.	Barking deer	<i>Muntiacus vaginalis</i>	LC
18.	Indian crested porcupine	<i>Hystrix indica</i>	LC

Reptiles			
1.	Bengal monitor	<i>Varanus bengalensis</i>	NT
2.	Indian Rock python	<i>Python molurus</i>	NT
3.	Checkered keelback	<i>Xenochrophis piscator</i>	NE
4.	Indian Chameleon	<i>Chamaeleo zeylanicus</i>	LC
5.	Indian Rat snake	<i>Ptyas mucosa</i>	LC
6.	Monocellate cobra	<i>Naja kaouthia</i>	LC
7.	Russel's viper	<i>Daboia russelii</i>	LC
8.	Spectacled cobra	<i>Naja naja</i>	LC
9.	Bibron's Skink	<i>Eutropis bibronii</i>	NT
Birds			
1.	Common Hill Myna	<i>Gracula religiosa</i>	LC
2.	Eurasian Eagle owl	<i>Bubo bubo</i>	LC
3.	Gray Jungle fowl	<i>Gallus sonneratii</i>	LC

2. v) DESCRIPTION OF FOREST AND OTHER HABITATS:

According to Champion and Seth's 'Classification of Revised Forest Types of India'. The forest types of the project area and its 10 km zone of influence can be classified into two major forest type i.e., (a) Group C: Northern Tropical Moist Deciduous Forest and (b) Group 5B: Northern Tropical Dry Deciduous Forest.

Also, there are several variations due to edaphic and biotic factors for which their types are further grouped as-

- 1C/C₁E Moist Peninsular Valley Sal
- 5B/C₁C Dry Peninsular Sal Forest
- 5B/C₁ Northern Dry Mixed Deciduous Forest

Besides, Dry Deciduous Shrub forest also exists to some extent in the area.

There are no national parks or wildlife sanctuaries or biosphere reserve within 10 km radius of the project area.

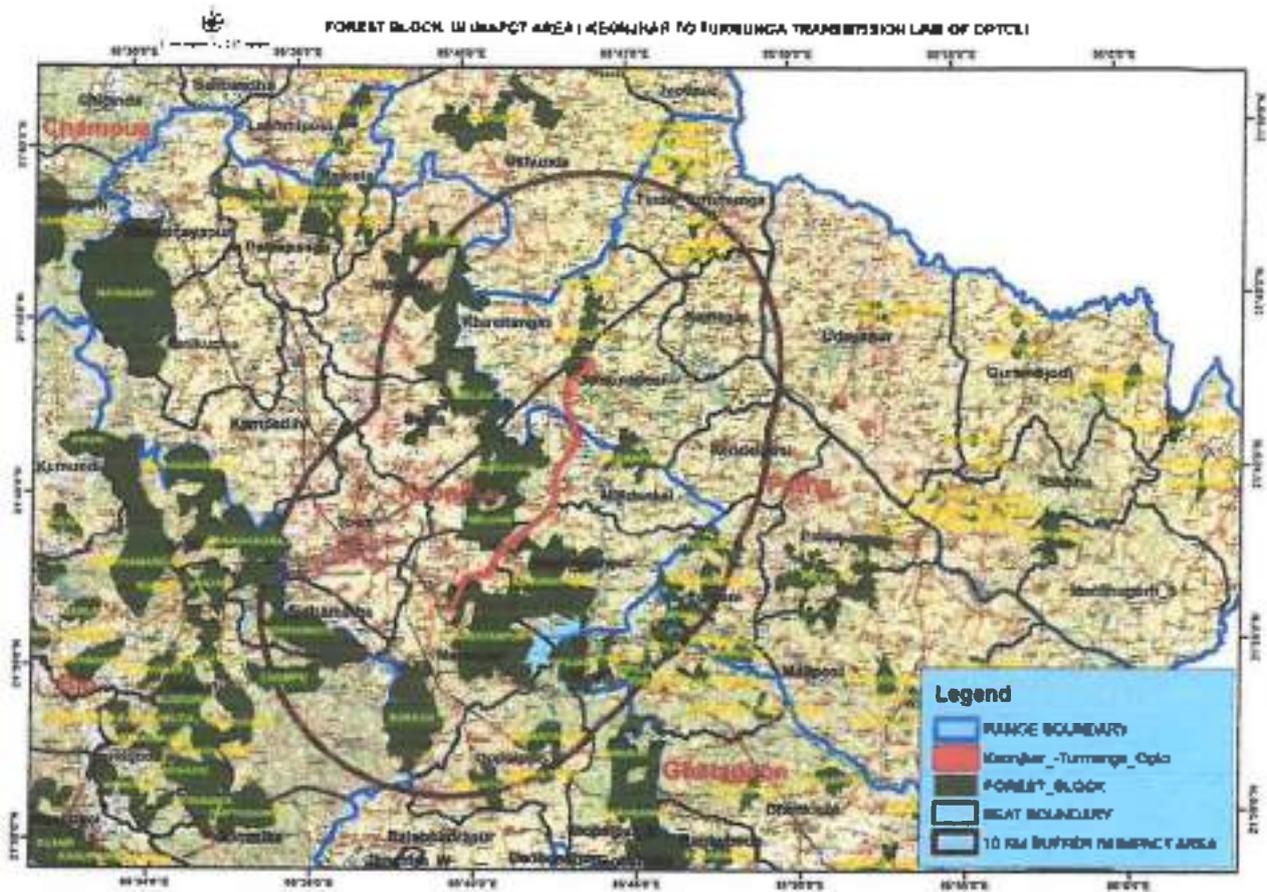


FIG-3: MAP SHOWING FOREST BLOCKS PRESENT WITHIN THE PROJECT AREA & ZONE OF INFLUENCE

However, there are 14 Reserve Forest present within 10km of the study area of the project. The distance to these is given in Table-9.

TABLE 9: LIST OF FORESTS WITHIN 10 KM ZONE OF INFLUENCE OF THE PROJECT

Sl. No.	Name of forest
1.	Bansuri RF
2.	Dhanajapur RF
3.	Jodipada RF
4.	Befda RF
5.	Maidankel RF
6.	Nelung RF
7.	Sidhamatha RF

8.	Basantapur RF
9.	Narayanpur RF
10.	Piplia RF
11.	Raghunathpur RF
12.	Puipani RF
13.	Padmapur RF
14.	Padmakesharpur RF

Forest Condition According to the FSI Report:

The 'India State of Forest Report-2021' for Keonjhar district shows that 38.77% of the geographical area is coming under forest respectively (Table 10). The forest cover of the districts is as follows.

TABLE 10: TABLE SHOWING FOREST COVER OF THE DISTRICT

District	Total forest (insq Km)	Very Dense Forest (insq Km)	Moderately Dense Forest (insq Km)	Open forest (insq Km)
Keonjhar	3,218.92	289.23	1,418.47	1,511.22

2. vi) WILDLIFE HABITAT AND PREVAILING WILDLIFE SCENARIO:

The district of Keonjhar is extremely diverse with abundance of natural beauty and wildlife. But a large part of the forest areas are under mining operation. However, there exists a good no. of Schedule-I fauna in the forests of Keonjhar District as mentioned above. Very often, elephants coerced to human habitation and human-elephant conflict is a common scenario of the district. As per Odisha Elephant Census Result 2017, there are 40 elephants which includes 09 male, 24 female and 07 young. Besides, elephants are migrating to Keonjhar Division from Jharkhand area.

2. vii) HUMAN WILDLIFE CONFLICT:

In recent times, human-wildlife conflict has risen as a global conservation issue. The continuous increase in the human population and the subsequent anthropogenic pressure on wildlife habitats have been identified as the major cause of the HWC. Similar is the condition here; due to an increase in anthropogenic pressure and subsequent habitat loss, fragmentation and degradation, HWC is prevalent in the zone of influence of this project. Elephant is the major species involved in HWC in this area. However, other species, such as wild pigs, rhesus macaque, etc. occasionally involved in conflict with humans. During the

period from 2014-15 to 2023-24, HWC has lost the life of 6 elephants and 18 numbers of humans (Plate- VII & VIII). Total number of cases on crop damage booked from 2014-15 to 2023-24 are 3,525 (Plate- VI). Also, during the aforesaid years 110 houses have been damaged (Plate- V).

2. viii) LOCATION OF OTHER PROJECTS IN THE IMPACT AREA OF THE PROPOSED PROJECT:

There are no mining projects or other projects present within the impact area of the proposed project (Plate- III).

CHAPTER-3 THE PROBABLE IMPACTS OF THE PROJECT ON FLORA & FAUNA

A. IMPACT OF THE PROJECT ON THE ENVIRONMENT IN GENERAL:

This is a linear project that includes overhead transmission towers and wires. Transmission lines may have some long-term impacts including land use restrictions, loss of woodland, and aesthetic impacts, while the temporary impacts occur during construction or at infrequent intervals such as during line repair or ROW maintenance. They can include noise or crop damage during construction. A transmission line project may have an indirect influence on the location and direction of land development. They have a significant impact on the vegetation, primarily due to the clearance required for their installation, which often involves cutting down trees and disrupting habitats. The electromagnetic fields (EMFs) generated by these lines can affect wildlife behavior and health, including birds and insects. Additionally, the visual intrusion of towering pylons can disrupt scenic landscapes and diminish property values.

Transmission lines are frequently viewed as a disruption in the landscape. A new line has a splintering impact on the environment. However, in the present study area, as the ground is covered, the landscape effect may be quite restricted. In the current project, the land classified as forest may be withdrawn from active forestry usage, while the area classified as non-forest may interfere with the operation of agricultural machinery and enhance weed spread.

It is vital to identify numerous variables that negatively impact biodiversity (flora and fauna) before attempting to eliminate various stressors and prevent, limit, or mitigate their unfavorable consequences. Taking into account the guidelines for creating a site-specific wildlife conservation plan, the important environmental parameters associated with the project are detailed below.

1) Impact on soil:

Transmission tower structures comprise an important infrastructure used to support overhead power lines and electric transmission systems.

Soil erosion:

Soil mixing, erosion, rutting, and compaction are all connected effects of transmission construction that can have a significant influence on future agricultural yields. Soil mixing

may occur during the excavation of pole foundations. The excavation depth for transmission structure foundations might vary significantly. Significant rutting can occur when soils get waterlogged or in more susceptible soils. This may have an influence on agricultural fields by enhancing soil mixing, eroding topsoils during rainstorms, and compacting soils. The degree to which soils are compressed by heavy construction equipment is determined by the soil type and saturation level. Ineffective erosion controls may sweep important topsoils downstream, impacting wetlands and waterways.

Mitigation measures:

- Excavated parent material or subsoils should not be combined with topsoil and dispersed throughout the ROW's surface.
- Maintaining a healthy, perennial plant cover.
- Provision of mulching as and when necessary.
- Planting a cover crop that includes annual grasses and other types of vegetation to provide temporary vegetative cover.

2) Impact on Vegetation:

The clearing of forests for mining operations has several effects on vegetation.

Habitat loss:

Loss of habitat is caused due to destruction, fragmentation or degradation of habitat which is a primary threat for the survival of wildlife. When an ecosystem changes by human activities, it may no longer be able to provide food, water & cover that wildlife need to survive. Loss of habitat reduces the carrying capacity of the area for wild animals. When a certain important habitat is constrained, habitat loss is caused not just by the loss of area but also by habitat fragmentation. Removal of vegetation leads to decline in the biodiversity which will have a profound impact on existing wildlife habitat. Due to deterioration of crop composition, population of herbivores gradually declines and there by population of prey-based predators also diminishes, as some wildlife can endure minima disturbance (low disturbance threshold).

Habitat loss due to fragmentation is currently the primary driver of biodiversity decline. Individual transmission line projects may fragment the landscape by dividing large blocks of forested habitat into smaller blocks which can result in a decline in species within

the remaining forests. While the mixture of habitats created by rights-of-way can allow greater density and diversity of wildlife to be present; transmission lines may also produce a negative edge effect for some species which require large, undisturbed habitat. Rights-of-way can create an edge effect; small animals will avoid using a right-of-way itself, but instead concentrate along the edge. Birds, fur-bearing mammals, and ungulates like deer are commonly seen feeding and travelling along rights-of-way. Narrow linear clearings do not act as barriers to movements of wide-ranging species and may even create travel corridors for predators, enhancing their movement and hunting opportunities within their range. This encroachment can have impacts on the number, health, and survival of interior forest species, many of which are rare.

Mitigation measures:

Habitat restoration is powerful to mitigate the impact of habitat loss.

- Providing habitat corridors that link patches of habitat and create network of protected habitats allowing the movement of various species.
- Enrichment planting can restore species diversity and accelerate recovery of degraded habitats.
- Introduction of keystone species leading to trophic cascades that improve habitat quality.
- Restoration of habitat quality through Community Forest Management (CFM) approach by educating the local communities to participate in forest management with a view to reduce deforestation & other negative anthropogenic impacts on the landscape.

3) Impact on wildlife:

Transmission lines transmit power over long distances across the province, traversing forests, streams and other wildlife habitats and this involves several factors related to construction which may have various effects on wildlife and wildlife habitats. These include clearing and disposal of vegetation, temporary access trails, crossing water bodies, disposal of waste and chemicals and digging of borrow pits. Rights-of-way may displace or impede the movements of some birds, marten and other small mammals having small territories or home ranges. Due to the length of transmission lines as well as the fact that they are situated many metres above ground, bird mortality is a foreseeable adverse impact of transmission line construction, which typically occurs because of collision and/or electrocution. Constructing

an ROW can also form a barrier to wildlife movement, particularly small animals who are likely to avoid the ROW, and instead concentrate along its edges.

Mitigation measures:

- Creating buffer zones between human settlements and wildlife habitats.
- Installing bird deflectors to divert the direction of birds.
- There should be continuous effort to collaborate and coordinate with Govt. agencies, NGOs, local communities and other stakeholders as well as to deal with various issues pertaining to human-wildlife interface.
- Marking the transmission lines with brighter colours to make the lines more visible to birds in flight.
- Modifying the habitat near transmission lines to reduce its attractiveness to birds, such as growing trees near or above the height of power lines to encourage birds to gain altitude to clear the transmission lines; all of which may result in fewer collisions
- Changing human behavior such as reducing waste of food sources that may attract wildlife.

4) Impact on Water:

Since this is a Transmission line project, this will have least effect on water pollution.

5) Impact on Air:

Transmission project will have less effect on air flow. Also, this will not involve any dust pollution related issues as the line has been taken over head.

6) Noise & Light Pollution:

Since this is a transmission line project, there won't be any unfavorable light or noise pollution.

7) Borrow pits:

To construct a transmission line, borrow pits are often needed. Borrow pits are areas where fill materials such as gravel, sand, silt and clay are excavated for use in foundation installation. Effects of borrow pits on wildlife and habitat are generally related to the potential for noise, erosion, dust, soil, and water contamination and minor, localized loss of habitat.

Mitigation measures:

- Allowing tree and shrub species that reach heights of 12 to 15 feet to grow within the Rights-of-way.
- Where areas have been temporarily cleared for borrow pits, planting of native vegetation should be encouraged.
- The sides of borrow pits should be graded with proper slope so as not to encourage soil erosion and seeded with native or non-invasive grass seeds to assist in rehabilitation of the site.

8) Forest fire:

Forest fires are widespread in all of Zu's forests as a result of human activity. It is used to harvest non-food plant products such as Mahua flowers, Sal seeds, Char seeds, and Honey. Forest fires are said to be a growing phenomenon over time, ravaging ecosystems, communities, and economy. Increased human reliance on forests for a range of reasons causes fragmentation, which aggravates fire outbreaks. Biotic pressures such as grazing and collection of NTFP have made forests more susceptible to fire. Fire alters the dynamics of plants in the forest. It alters the vegetation in such a manner as to give certain products and services that benefit people who start fires or those who take advantage of the situation.

The fire pattern can also be expected to be a result of the socio-economic context. It can be expected that people only burn forest if more attractive income-generation activity is not available to them and, once they have alternatives for income-generation, they may reduce the frequency with which they set fire.

Mitigation Measures:

- Preparation of fire map and to identify fire prone areas.
- To take up control burning activities before the onset of fire season i.e., within February.
- To make regular foot patrolling in forest areas.
- Procurement of adequate fire fighting equipments and tools.
- Maintenance of forest routes, fire lines, boundary and compartment lines.
- Organizing public awareness programs such as oath taking, rallies, proper display of sign boards/banners including pictorial depiction of do's and donot's in odia.

- To coordinate with VSS, PRI members, youth clubs and other stakeholders and to maintain updated contact details of all stakeholders for improved coordination.

9) Contact with Transmission Lines:

The most serious risk of injury from a power line is electrical contact between a grounded object and an energized conductor. As mitigation measure, no one should be on or in contact with an item taller than 15 to 17 feet when near a high-voltage electrical line.

10) Impact of Stray Voltage:

To guarantee dependability and safety, all electrical systems, including utility distribution systems and agricultural systems, are grounded to the soil. As a result, at every location where the electrical system is grounded, some current travels through the earth and a very small voltage appear. Neutral-to-earth voltage (NEV) is the name given to this voltage. An animal can pass a current through itself when the NEV between two items is concurrently contacting is measured; this current is referred to as stray voltage. A modest electrical shock may then be administered to the animals, which may result in a behavioral reaction. An animal may tremble at low voltages with no other observable effects. Humans might not recognize stray electricity. To prevent the problem, periodic inspection and testing of voltage/current levels by an electrician can be adopted as a mitigative measure.

11) Effect of electric and magnetic fields on wildlife:

Electric and magnetic fields (EMF) are invisible fields of energy arising from the flow and use of electrical energy. Both electric and magnetic fields are present near transmission lines. Numerous research programs have studied the effects of EMF on wild and domesticated animals, but has not found any relationship between EMF and the health, behaviour or productivity of animals. Additionally, studies of crops and other plants have reported no adverse effects on growth or viability.

12) Effects of Transmission Line and Right-of-Way Maintenance:

Transmission line maintenance includes regular inspection and repairs to the lines and structures which don't have lasting effect on wildlife or wildlife habitat. Clearing the right-of-way for a transmission line will eliminate just a small portion of wildlife habitat. However,

the influence on habitat differs for each animal. Clearing may sometimes promote plants that increase habitat for animals like mouse, deer, hare, and birds. On the other hand, destroying vital habitat for rare or endangered species may have a negative or severe impact on such species. The greatest method to minimize harmful impacts on wildlife habitat is to avoid sensitive sites.

13) Litter generation:

Garbage and accidental oil, chemical or fuel spills can result in negative effects on wildlife and wildlife habitat. Before construction begins, containment, transport, disposal and emergency procedures are developed and approved by local and provincial authorities. Garbage, if left on the construction site, could potentially hurt wildlife. Confrontations between people and wildlife (though often not of a serious nature) may occur if wildlife is attracted to construction camps as a result of improperly stored garbage. As mitigative measures garbage and debris are to be collected and removed to a landfill site approved for use by appropriate regulatory authorities.

**CHAPTER-4
OBJECTIVE OF MANAGEMENT AND MITIGATION STRATEGIES****A. OBJECTIVE OF MANAGEMENT:**

The rising degree of development in most landscapes outside Protected Areas presents a significant challenge for animal conservation and management. It is essential to guide projects that frequently harm or damage habitats, hence negatively impacting animal protection and the ecosystem. Wildlife management is a possible solution to maintain the balance between the needs of wildlife and people living in the area through the use of scientific strategies, which include applying and executing proper plan recommendations to reduce the impacts of decimating factors and neutralizing the harmful effects of limiting factors that keep the animal population below the area's carrying capacity. It also aims at management of human dimensions relating to regulation of habitat use, sufferance from animal damages, livelihood issues and taking people as partners in conservation management.

The key objective of the plan is to alleviate various stresses caused by the installation of a transmission line for the transfer of 220 KV D/C power from PGCIL 400/200 KV Grid Sub-Station, Keonjhar to 220/132/33KV Grid Sub-Station, Turumunga, Keonjhar. The Site-Specific Wildlife Conservation Plan will advise strategies to lessen or ameliorate such stress, as well as how to avoid certain activities that may have a detrimental impact on the Transmission Line Project. It also aims at management of human dimensions relating to regulations of habitat use sufferance from animal damages, livelihood issues and taking people as partners in conservation and management.

The management of the Project area will aim for maintenance of habitat for smaller animals that used to live and share habitat for their living and propagation. At the same time, the buffer area will nurture as a part of the larger habitat for wild animals that may come over. The management of Buffer Zone will target optimization and maintenance of wildlife habitat and biodiversity, involving local people as far as practicable and aim to avoid / minimise or mitigate the adverse impacts of the Project activity.

This Conservation Plan will suggest measures to mitigate such stress and if possible, how to avoid certain activities which could reduce the negative impact and the most important to ensure safe passage of wildlife. The management of the project area aims for maintenance of habitat for smaller animals that used to live and share habitat along with the traffic and

vehicular movement along the road. At the same time, it ensures the safe passage of wildlife in their habitat. The management of Impact Zone will target optimization and maintenance of wildlife habitat and biodiversity, involving local people as far as practicable and aim to avoid/minimize or mitigate the adverse impacts. The project area has Reserve forest, orange area with composition of rich flora and fauna.

Specific Objectives of this Wildlife management plan are:

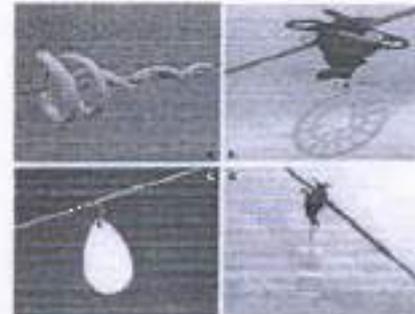
- ❖ Understanding the floral and fauna resources both in Project Area and Impact Zones referring to primary and secondary sources to get baseline information.
- ❖ Preparation of Wildlife conservation plan basing on the findings in view of threat to wildlife movement and their natural habitat.
- ❖ Developing participatory initiatives of local people for conservation and management of habitats in the Impact Zone.
- ❖ Preparing Wildlife conservation plan as an attempt to balance the needs of wildlife with the needs of the people using the best available technique. It consists of promoting welfare factors, arresting or reducing the impacts of decimating factors and neutralizing harmful effects of limiting factors that keep the animal population lower than the carrying capacity of the area. It also aims at management of human dimensions relating to regulations of habitat use sufferance from animal damages, livelihood issues and taking people as partners in conservation and management.
- ❖ The main objective of this plan is to reduce/minimize/mitigate various stresses that occur due to implementation of this project in this particular locality having wildlife importance by using available modern technologies.
- ❖ The management of Impact Zone will target optimization and maintenance of wildlife habitat and biodiversity, involving local people as far as practicable and aim to avoid/minimize or mitigate the adverse impacts.

B. STRATEGIES TO MITIGATE AND MINIMIZE ADVERSE IMPACTS:

1) STRATEGIES FOR CORE ZONE:

1.1) Installation of Bird deflector:

Bird flight deflector prevents birds from colliding into transmission lines. High powered transmission lines are placed very high that are potentially fatal obstacles for avian species. Under low visibility condition, birds sometimes fly into power lines & collide with overhead structures and conductors. Bird flight deflector is a device designed to make over-head power lines more visible to birds, helping in preventing bird collisions and avian safety. These deflectors are brightly colored or feature reflective materials that catch attention of birds making the power lines more noticeable & reducing the risk of collisions. They are used in various locations using



Power line corridors, sub-stations, and other areas where birds may encounter power lines. These detectors are made from materials that are safe for environment and significantly reduce bird collision with power lines. Those electors generally have long life span and require minimal maintenance.

1.2) Engagement of Wildlife biologist:

Continuous monitoring of Elephant and other animals/birds is very much important to know their behavior pattern and habitat requirements for suitable habitat manipulation. It is therefore proposed in this plan to engage one Wildlife Biologist with adequate knowledge, experience and requisite qualification in the field of wildlife management.

1.3) Additional 5% Funds towards unforeseen interventions:

5% of the plan cost over and above by the User Agency in "The Wildlife Odisha" for taking up operations not envisaged in the Site Specific Wildlife Management Plan i.e. Rs. 6-80 Lakh.

[Handwritten Signature]
 Divisional Forest Officer,
 Keonjhar Division

Approved

[Handwritten Signature]
 Principal Chief Conservator of Forests
 (Wildlife) & Chief Wildlife Warden
 Odisha, Bhubaneswar

II) STRATEGIES TO MITIGATE AND MINIMIZE THE ADVERSE IMPACT SO OBSERVED IN THE ZONE OF INFLUENCE (ZOI):

WILDLIFE HABITAT IMPROVEMENT

II.1) Creation/Renovation of water holes:

During summer most of the streams except some major water sources remain dry for which the wild animals often face difficulty to get water deep inside the forest. During this time the wild animal come close to the human habitation in search of water as a result, the chance of human-wildlife conflict gets increased. The water holes should aim location where small mammals like rabbits, mongoose and reptiles can fulfill their water requirement.



Also, numerous water bodies that pre-exist in the forest are gradually deteriorating due to siltation and eutrophication to such an extent that during peak summer season it remains dry which compels the wildlife to approach the nearby villages. In order to overcome such situation, it is necessary to renovate the water bodies at regular intervals as a mitigative measure to confine the animals within the forest area. This will also help to improve habitat.

PROTECTION & SURVEILLANCE

II.2) Provision of Elephant Squad:

The squad will be engaged during crop (Paddy) raiding period over a duration of six months i.e., from October to March, and during the rest period of the year they will be engaged to drive out depredating elephants if they invade for damage of crop like sugar cane, vegetables,



Mango, etc. The squad members will be selected from the fringing villages of the forest who are well conversant with animal behavior, particularly of elephants. The job of the squad members will be primarily to gather data on the number of elephants, their location and their line of movement. Information so obtained can be relayed to the Range officers, Foresters, Forest Guards and concerned villagers. Squad members will be provided with mobile phones/VHF handsets, haversack, water bottle, note book, pencil, khukri, measuring tape, etc. to record their observations. Regular tracking will help to map the movement routes and identify the frequency of depredation.



Divisional Forest Officer,
Keonjhar Division

Justification for interventions proposed with respect to expected impacts of Keonjhar Forest Division

Sl. No.	Components of Ecosystem	Probable Impacts	Proposed Interventions
1	Flora & Fauna	Habitat loss	Creation/Renovation of water holes
		Threats to Wildlife	Installation of Bird deflectors
			Engagement of Wildlife Biologist
Man-animal Conflict	Provision of Elephant Squad		

CHAPTER-5
FINANCIAL IMPLICATIONS AND MONITORING

A. Total financial implication of the proposal given and the cash flow statement for 05 years (year-wise) need to be given here. Also, monitoring and evaluation and interim review provision shall be mentioned.

TABLE 5.1: FINANCIAL PROVISION OF WORKS IN THE PROJECT AREA

KEONJHAR FOREST DIVISION

Sl. No.	Para Ref.	Management Interventions	Amount in lakh
1.	4.B. 1.1)	Installation of Bird Deflector	To be borne by User Agency
2.	4.B. 1. 2)	Engagement of Wildlife Biologist	

3. 4.B.1. 3) Contribution to the Account "The Wildlife Odisha" @ 5% over and above the Plan cost.


21/06/24
Divisional Forest Officer,
Keonjhar Division

Approved


Principal Chief Conservator of Forests
(Wildlife) & Chief Wildlife Warden
Odisha, Bhubaneswar

TABLE 5.2: FINANCIAL PROVISION OF WORKS IN ZONE OF INFLUENCE (WAGE RATE @ 450.00)

KEONJHAR FOREST DIVISION

Sl. No.	Para Ref.	Interventions	Unit	Rate	Quantity	Amount in lakh	Remarks
1.	4.B. II.1)	Creation/Renovation of water holes (60m x 40m x 5m)	No.	7 Lakh/-	4	28.00	
Protection and Surveillance							
Provision of Elephant Squad							
3.	4.B. II. 2)	a. One No. Elephant Squad consisting of 05 members (1@Rs.450.00 per Manday with Service Provider= 18,645.00/- per Month)- x 5 members =Rs. 93,225.00/- per month x 12 months x 05 years= Rs.55,93,500.00	Squad	(@Rs. 450.00 per Manday with Service Provider= 18,645.00/- per Month)	01	55.935	
		b. Hired Vehicle	Year	31,000 PM	05	18.60	
		c. POL for vehicle	Year	15,000 PM	05	09.00	
		d. Recharge of Mobile Phone	Year	1,000 PM	05	0.60	
		e. Medicinal Expenses	Year	10,000/-	05	0.50	
		f. Contingencies expenses on L.S.	LS			0.50	
Total						113.135	
20% Escalation						22.627	
Grand Total						135.762	

(Rupees one crore thirty-five lakh seventy-six thousand two hundred) only



Divisional Forest Officer,
Keonjhar Division

Annual Work Programme:

Details of the flow of funds for different years of the plan for Zol are given below (Rs. in Lac)

Sl. No.	Para Ref	Type of Interventions	1 st Year	2 nd year	3 rd year	4 th year	5 th year	Total Amount
1.	4.B.II.1	Renovation of existing water holes	28	-	-	-	-	28
2.	4.B.II.2	Elephant Squad	17.027	17.027	17.027	17.027	17.027	85.135
		TOTAL	45.027	17.027	17.027	17.027	17.027	113.135
							20% Escalation	22.627
							Grand Total	135.762

(Rupees one crore thirty-five lakh seventy-six thousand two hundred) only


Divisional Forest Officer,
Keonjhar Division

ABSTRACT OF COST

Division	Core Zone Amount (Lakh)	Buffer Zone Amount (Lakh)	Total Amount (Lakh)
KEONJHAR	-	135.762	135.762
TOTAL AMOUNT (LAKH)	-	135.762	135.762

(Rupees one crore thirty-five lakh seventy-six thousand two hundred) only

Countersigned

[Signature]
Regional Chief Conservator of Forests
Rourkela Circle, Rourkela

[Signature]
21/06/24
Divisional Forest Officer,
Keonjhar Division

Approved

[Signature]
Principal Chief Conservator of Forests
(Wildlife) & Chief Wildlife Warden
Odisha, Bhubaneswar

CHAPTER- 6
ANNEXURE AND MAPS

- a) **PLATE-I:** MAP INDICATING PROJECT AREA WITH 10 K.M. ZONE OF INFLUENCE.
- b) **PLATE-II:** MAP INDICATING ELEPHANT MOVEMENT OF THE AREA.
- c) **PLATE-III:** MAP INDICATING OTHER PROJECTS PRESENT WITHIN THE PROJECT AREA.
- d) **PLATE-IV:** MAP INDICATING THE DISTANCE OF PROTECTED AREA TO PROJECT AREA.
- e) **PLATE -V:** MAP INDICATING HOUSE DAMAGED WITHIN THE IMPACT AREA.
- f) **PLATE-VI:** MAP INDICATING CROP DAMAGED WITHIN THE IMPACT AREA.
- g) **PLATE-VII:** MAP INDICATING HUMAN DEATH WITHIN THE IMPACT AREA.
- h) **PLATE-VIII:** MAP INDICATING ELEPHANT DEATH WITHIN THE IMPACT AREA.
- i) **ANNEXURE-I:** COPY OF STAGE-I APPROVAL



No. 5-ORCS76/2023-BHL

14th March, 2024

To
 The Addl. Chief Secretary,
 Forest, Environment & CC Dept.,
 Government of Odisha
 Bhubaneswar-751 001.

Sub- Diversion of 8.435 ha of forest land for construction of 220 KV-DC Transmission line from
 -00/200 KV PGCL Grid Sub-Station, Keonjhar to 220/132 KV KV Grid Sub-Station at Turumuga,
 Keonjhar by OJPECL.

Sr,
 I am directed to refer to State Govt. letter No.FE-DIV-FLD-0050-2023-10858/FE&CC dated
 26.05.2023 and PCCF & Nodal Officer (FCA), Odisha letter No 202569F(Trans)-44/2023 dated
 18.10.2023 on the above mentioned subject seeking prior approval of the Ministry of Environment, Forest
 & Climate Change under Section 2 of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

2. After due consideration of the proposal of the State Government and on the basis of decision of
 Regional Empowered Committee meeting held on 27.02.2024, the Ministry of Environment, Forest &
 Climate Change hereby conveys 'Stage-I/II-principle' approval for diversion of 8.435 ha of forest land for
 construction of 220 KV-DC Transmission line from -00/200 KV PGCL Grid Sub-Station, Keonjhar to
 220/132 KV KV Grid Sub-Station at Turumuga, Keonjhar by OJPECL, subject to the fulfillment of the
 following conditions.

- A: Conditions which need to be complied prior to handing over of forest land by the State Forest
 Department.
- The user agency shall transfer online, the Net Present Value (NPV) of 8.435 ha forest land being
 diverted under this proposal, as per the Orders of Hon'ble Supreme Court of India dated
 28.03.2008, 24.04.2008 and 09.05.2008 in Writ Petition (Civil) No.202.1995 and the guidelines
 issued by this Ministry vide its letter No.5-42011-FC (Val-I) dated 06.01.2022, 19.01.2022 &
 12.03.2022. The requisite funds shall be transferred through online portal in CAMPA account of
 the State concerned.
 - The State Govt. shall realize Penal NPV of five (5) times of the area used for non-forestry activity.
 - The user agency shall transfer the cost of plantation of 100 trees to be planted as Penal
 Compensatory Afforestation (including 10 years maintenance) at the current wage rate in
 consultation with State Forest Department in the account of CAMPA of the concerned State
 through online portal. The Plantation Scheme may include appropriate provision for anticipated
 cost increase for works scheduled for subsequent years.
 - The land identified for the purpose of Compensatory Afforestation shall be clearly demarcated on a
 Survey of India Topo sheet of 1 : 50,000 scale.
 - The KML files of the area to be diverted and the CA areas shall be uploaded on the e-Green watch
 portal with all requisite details before issuing working permission towards linear projects or
 submitting compliance report for seeking Stage-II approval, as the case may be.
 - The user agency shall transfer the cost of raising and maintaining the compensatory afforestation at
 the current wage rate in consultation with State Forest Department in the account of CAMPA of the
 concerned State through online portal. The scheme may include appropriate provision for
 anticipated cost increase for works scheduled for subsequent years.

- vi) The user agency in consultation with the State Forest Department shall prepare a detailed scheme for creation and maintenance of plantation of dwarf species (preferably medicinal species) in right of way under the transmission line, and provide funds for execution of the said scheme by the State Forest Department.
 - vii) As recommended by the State Govt. a Site Specific Wildlife Conservation Plan shall be prepared and duly approved by CWI.W, Odisha and to be implemented at project cost.
 - viii) All the funds received from the user agency under the project shall be transferred/ deposited in CAMPA account only through e-portals (<https://parivesh.nic.in/>). Amount deposited through other mode will not be accepted as compliance of the Stage-I clearance.
 - ix) The compliance report of the Stage-I approval shall be uploaded on e-portal (<https://parivesh.nic.in/>).
 - x) The complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificates from the concerned District Collector.
 - xi) The boundary of the proposed forest land for diversion shall be concreted on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates.
- B: Conditions which need to be strictly complied on field after handing over of forest land to the user agency by the State Forest Department but the compliance in form of undertaking shall be submitted prior to Stage-II approval.**
- i) Legal status of forest land proposed for diversion shall remain unchanged.
 - ii) Compensatory afforestation shall be raised over 16.87% of degraded forest land identified in Lakhunda RF under Champud Range of Keonjhar Forest Division within two years from the date of Stage II Clearance and maintained thereafter by the State Forest Department, at the cost of user agency.
 - iii) The State Govt. shall carry out plantation of 100 plants towards Peral compensatory afforestation within two years from the issue of approval and maintained thereafter, at the cost of user agency. The State Govt. shall inform the site of the plantation.
 - iv) The species to be planted in the CA/Peral CA scheme shall be an native species of the area. At least 18 month old seedlings should be planted. Intensive monitoring of the plantation needs to be done and documented using Geo tagging so that the increase of canopy density and survival and growth of plantation can be evaluated at regular intervals.
 - v) At the time of payment of Net Present Value (NPV) at the then prevailing rate, the user agency shall furnish an undertaking to pay the actual amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India.
 - vi) The base of towers in forest area to be fenced with galvanized wire to avoid elephant electrocution/ death of wild animals especially in forest areas. The concerned D. O shall inspect the area and shall take a decision as to the specific towers which shall be fenced with barbed wire along leg of the towers.
 - vii) In high slope areas, sufficient ground clearance has to be maintained with additional height of towers in consideration of the sag and swing of lines and height of elephants to stop upward incidence of electrocution as per existing guidelines of M&C dated 05.05.2014 and 19.11.2014.
 - viii) The user agency at its cost shall provide bird deflectors, which are to be fixed on upper conductor of transmission line at suitable intervals to avoid bird hits.
 - ix) The user agency shall explore the possibility of successful transplantation of maximum number of trees identified to be felled and shall ensure that any tree felling shall be done only when it is unavoidable and that too under strict supervision of the State Forest Department.
 - x) The user agency shall comply with the guidelines for laying transmission lines through forest areas issued by Ministry vide letter No.7-21/2012-FC dated 05.05.2014 and 19.11.2014.
 - xi) The user agency shall obtain Environmental Clearance as per the provisions of Environment (Protection) Act, 1986, if applicable.

- vi) No labour camp shall be established on the forest land and the user agency shall provide fuels preferably alternate fuels to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas.
- vii) No additional or new path will be constructed inside the forest area for any activity related to the project work.
- viii) The user agency while executing works shall not fell any tree or damage forest growth in the surrounding forest area in any manner.
- ix) The layout plan of the proposed forest land shall not be changed without the prior approval of Ministry of Environment, Forest & Climate Change.
- x) The forest land shall not be used for any purpose other than that specified in the proposal.
- xi) The forest land proposed to be diverted shall under no circumstances be transferred to any other user agency, department or person without the prior approval of Ministry of Environment, Forest & Climate Change.
- xii) No damage to the flora and fauna of the adjoining area shall be caused.
- xiii) The concerned Divisional Forest Officer will monitor and take necessary mitigative measures to ensure that there is no adverse impact on the forests in the surrounding area.
- xiv) The user agency shall submit annual self-monitoring report on compliance of stipulated conditions to the Nodal Officer (FCM) of the State and concerned Integrated Regional Office of this Ministry by the end of March every year.
- xv) Any other conditions that the Ministry of Environment, Forests & Climate Change may impose from time to time in the interest of afforestation, conservation and management of flora and fauna in the area, shall be complied by the user agency.
- xvi) The State Govt. and user agency shall ensure compliance to provisions of the all Acts, Rules, Regulations, Guidelines, NGF Order(s) & Hon'ble Court Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project.
- xvii) Violation of any of these conditions will amount to violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and penalty would be taken as presented in Para 7.16 of Chapter 1 of Consolidated Guidelines and Clarification issued under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and Van (Sanrakshan Evam Samvardhan) Rules, 2023 vide Ministry's letter dated 29.12.2023.

3. After receipt of the report on compliance to the conditions stipulated above, from the State Government of Odisha, final Stage-II approval for diversion of the said forest land under Section 2 of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 will be issued by this Ministry. Transfer of forest land to user agency should not be effected by the State Government of Odisha till final Stage-II approval for its diversion is issued by the Ministry of Environment, Forest & Climate Change.

4. "The State Govt. or a Section Officer not below the Rank of a Divisional Forest Officer, having jurisdiction over the forest land proposed to be diverted, duly authorized in this behalf by the State Govt. can pass an order for tree cutting and commencement of work of a linear project in forest land for a period of one year ("working permission") means permission granted to linear project before final approval to mobilize the resources to commence the primary project work other than (bark tapping, concretization, laying of railway tracks, charging of transmission lines, etc.). Such order shall be passed only after full realization of funds for compensatory afforestation, Net Present Value (NPV), Wildlife conservation Plan, plantation of draft species of medicinal plants, and all user compensatory levies, specified in the Stage-I (in principle) approval from the User Agency, and where ever applicable, transfer and mutation of non-tax/revenue forest land in favour of State Forest Department" as stipulated in Para 21.1 of Chapter-11 of Consolidated Guidelines and Clarification issued under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and Van (Sanrakshan Evam Samvardhan) Rules, 2023 vide Ministry's letter dated 29.12.2023.

Yours faithfully,

Padma Mahanti

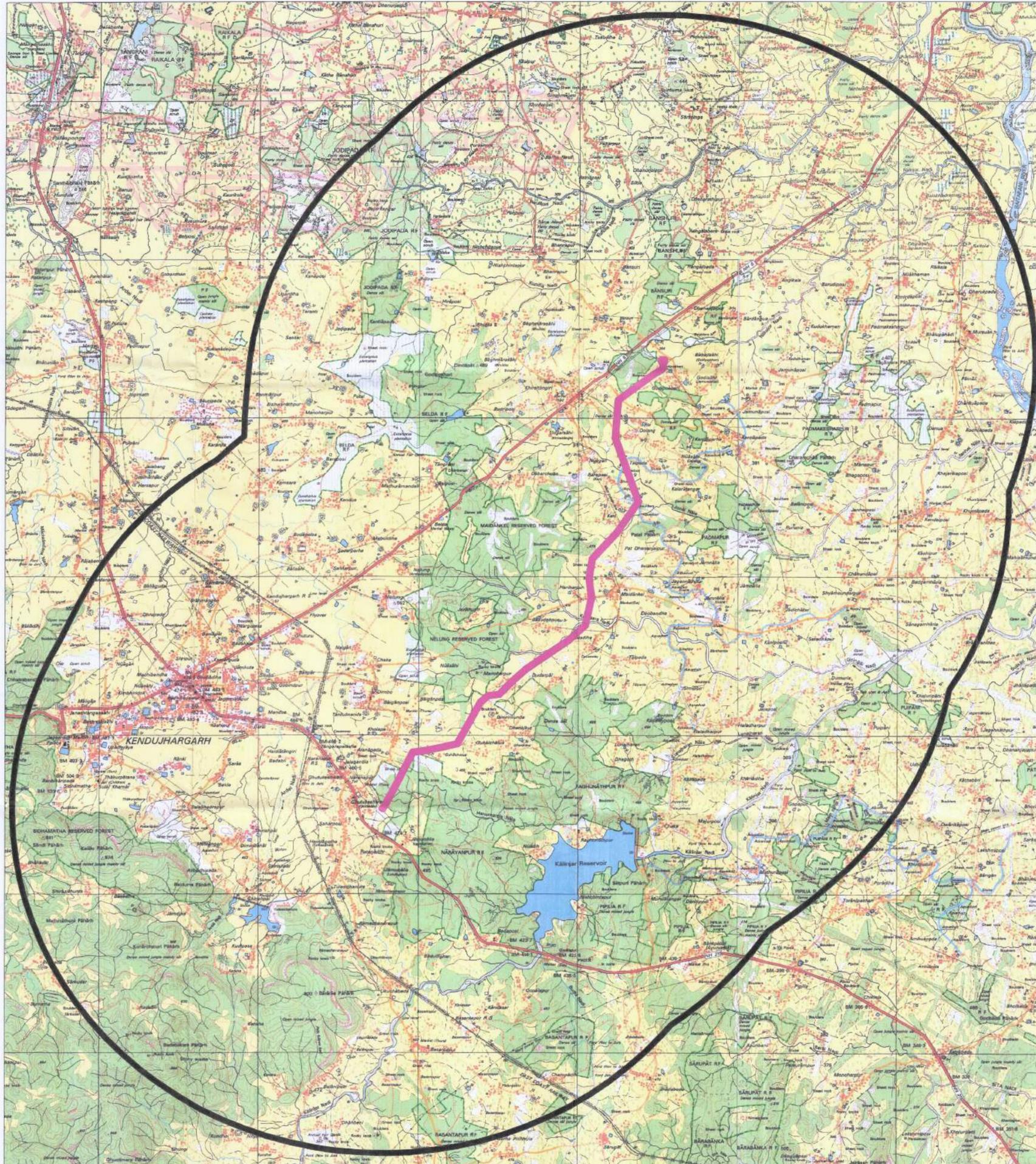
(Padma Mahanti)
DS, Inspector General of Forests (C)

Copy to:-

1. The Inspector General of Forests (ROHQ), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi - 110 003.
2. The PCCF & Nodal Officer (FCA), Forest Department, Govt. of Odisha, Aranya Bhawan, Chandrasekharpur, Bhubaneswar-751023.
3. The Dy. General Manager (Elect.), EHT (Cons.) Division, OPICL, Keonjhar, At: Baladevjew Colony, Lane-8, Jagannathpur, Keonjhar-758001, Odisha.

Dy. Inspector General of Forests (C)

TOPO MAP SHOWING 10 KM ZONE OF INFLUENCE AGAINST CONSTRUCTION OF 220 KV D/C LINE FROM PGCIL 400/200 KV GRID S/S KEONJHAR TO TURUMUNGAOF M/S OPTCL, KEONJHAR COMING UNDER KEONJHAR FOREST DIVISION, KEONJHAR DISTRICT



1:50,000



OPEN SERIES MAP NO. - F45N9, F45N10, F45N13 & F45N14

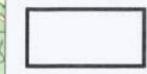
CONVENTIONAL SYMBOLS

Express highway: with toll; with bridge; with distance stone			
Roads, metalled: according to importance			
Roads, double cartageway: according to importance			
Unmetalled Road, Cart-track, Pack-track with pass, Foot-path			
Streams: with track in bed; undefined, Canal			
Dams: masonry or rock-filled; earthwork, Weir			
River: dry with water channel; with island & rocks, Tidal river			
Submerged rocks, Shoal, Swamp, Reeds			
Wells: lined; unlined, Tube-well, Spring, Tanks: perennial, dry			
Embankments: road or rail; tank, Broken ground			
Railways, broad gauge: double; single with station; under constr.			
Railways, other gauges: double; single with distance stone; do			
Mineral line or tramway, Kān, Cutting with tunnel			
Contours with sub-features, Rocky slopes, Cliffs			
Sand features: (1) flat, (2) sand-hills (permanent), (3) dunes (shifting)			
Towns or Villages: inhabited; deserted, Fort			
Huts: permanent; temporary, Tower, Antiquities			
Temple, Chhatra, Church, Mosque, Idgāh, Tomb, Graves			
Lighthouse, Lightship, Buoys: lighted; unlighted, Anchorage			
Mine, Vine on trellis, Grass, Scrub			
Palms: palmyra; other, Plantain, Conifer, Bamboo, Other trees			
Areas: cultivated; wooded, Surveyed tree			
Boundary, international			
state: demarcated; undemarcated			
district: subdivision; tahsil or taluk; forest			
Boundary pillars: surveyed; unlocated			
Heights, triangulated: station; point; approximate			
Bench-mark: geodetic; tertiary; canal			
Post office, Telegraph office, Overhead tank			
Rest house or inspection bungalow, Circuit house, Police station			
Camping ground, Forest: reserved; protected			
Spiced names: administrative; locality or tribal			
Hospital, Dispensary, Veterinary: Hospital / Dispensary			
Aerodrome, Helipad, Tourist site			
Power line: with pylons surveyed; with poles unsurveyed			

Legend



PROJECT LOCATION

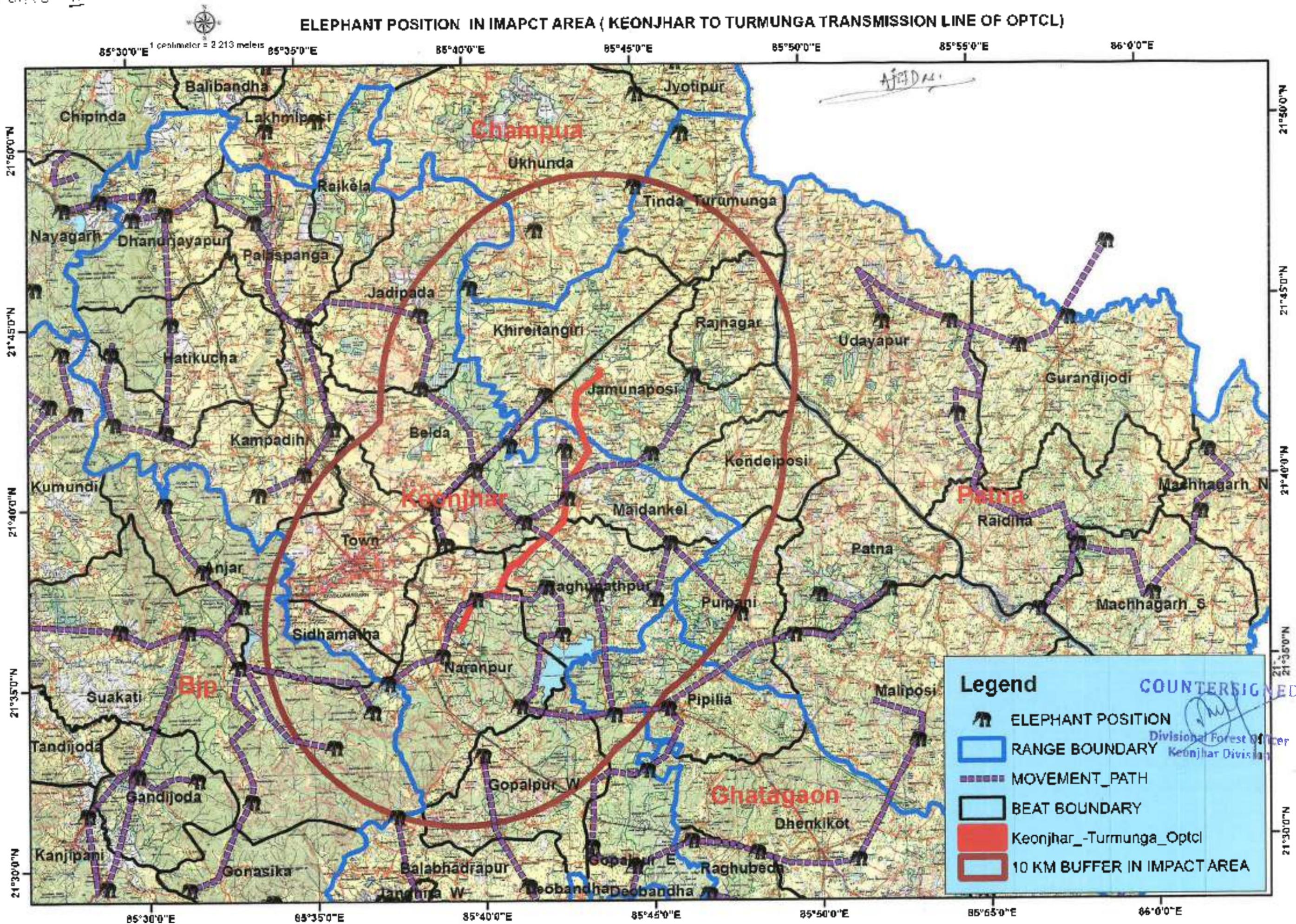


10 KM ZONE OF INFLUENCE

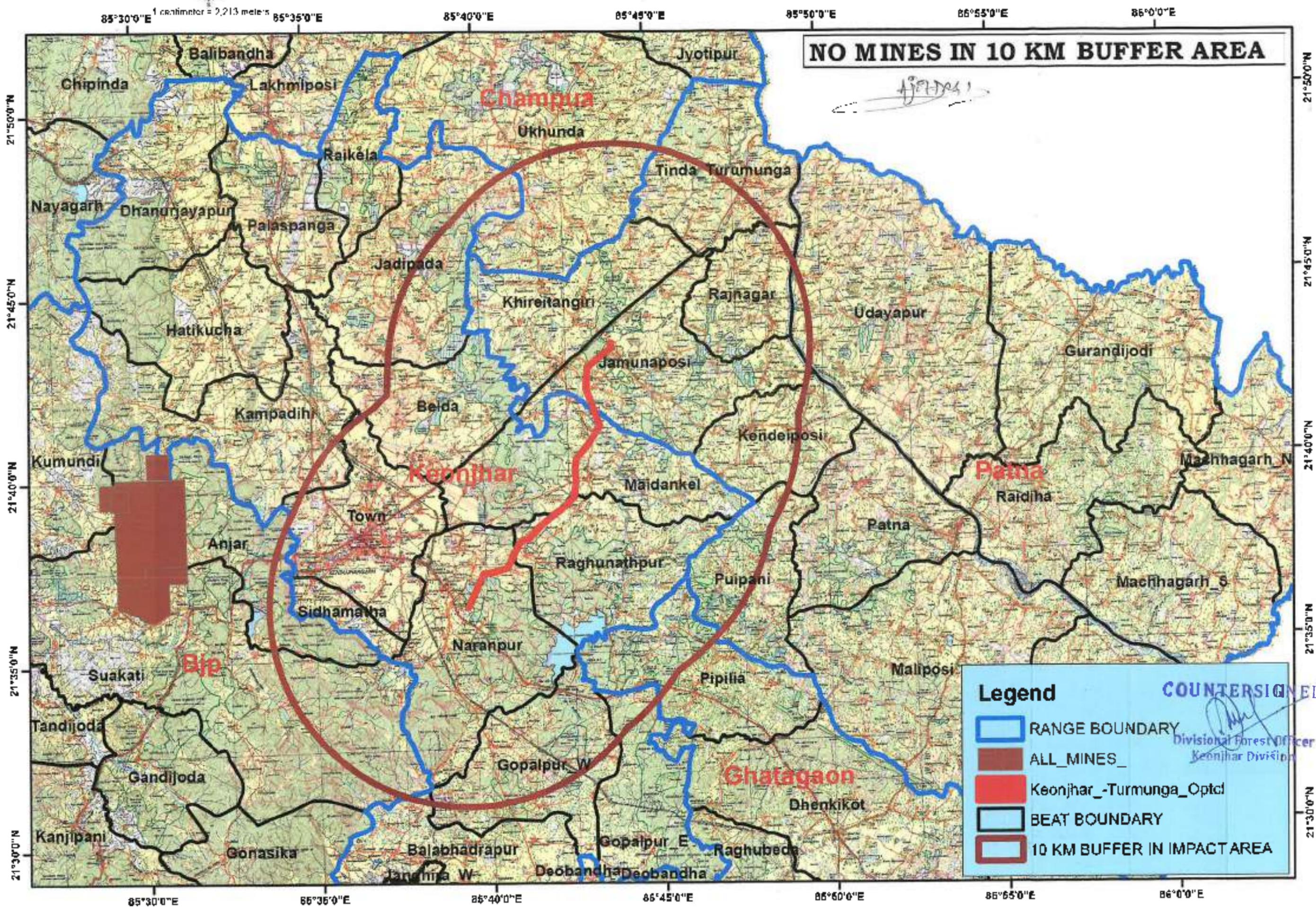
COUNTERSIGNED,

Divisional Forest Officer, Keonjhar Division

ELEPHANT POSITION IN IMPACT AREA (KEONJHAR TO TURMUNGA TRANSMISSION LINE OF OPTCL)



MINES AREA IN IMPACT AREA (KEONJHAR TO TURMUNGA TRANSMISSION LINE OF OPTCL)



THE MAP OF ODISHA SHOWING THE DISTANCE OF PROJECT AREA OF CONSTRUCTION OF 220 KV TRANSMISSION LINE FROM 400/200 KV PGCIL GRID SUB-STATION, KEONJHAR TO PROPOSED 220/132/33KV GRID SUB-STATION, AT-TURUMUNGA, IN KEONJHAR DISTRICT, ODISHA FROM THE NEAREST ELEPHANT CORRIDORS/SANCTUARIES/NATIONAL PARKS/TIGER RESERVES/ELEPHANT RESERVES/BIOSPHERE RESERVE AND RAMSAR SITES

SL. NO.	ELEPHANT CORRIDOR	DISTANCE (IN KM)
1	Badampahar-DhobaDhobin	45.25
2	Badampahar-Karida	58.92
3	West Bengal-Deuli-Suliapada	125.14
4 (a)	Similipal-Hadhgarh	60.45
4 (b)	Similipal-Kuldhia	73.67
5	Telkoi-Pallahara	36.49
6	Karo-Karampada	56.33
7	Maulabhanja-Jiridimal-Anantpur	70.89
8	Kahnejena-Anantpur	75.29
9	Buguda-Central RF	165.67
10	Nuagaon-Baruni	150.33
11	Tal-Kholgarh	157.66
12	Barpahad-Tarava-Kantamal	216.69
13	Kotagarh-Chandrapur	275.89
14	Karlapat-Urladani	273.26

SL. NO.	SANCTUARY	DISTANCE (IN KM)
1	Bhitarkanika	141.92
2	Balukhand-Konark	196.47
3	Baisipalli	147.66
4	Badrama	128.79
5	Chilika (Nalaban)	219.82
6	Chandaka-Damapara	133.68
7	Debrigarh	197.26
8	Gahirmatha (Marine)	165.08
9	Hadhgarh	67.22
10	Khalasuni	118.69
11	Kuldhia	89.49
12	Nandankanan	131.28
13	Similipal	38.82
14	Satkosia Gorge	121.02
15	Sunabeda	340.32
16	Karlapat	326.56
17	Lakheri -Valley	281.52
18	Kotagarh	257.96
19	Kapilash	97.08

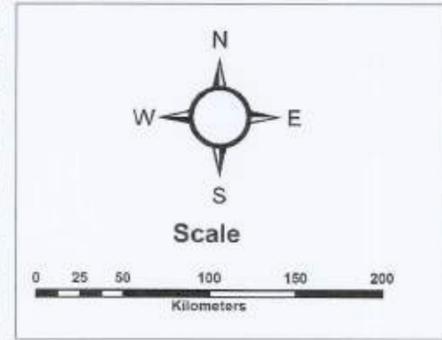
SL. NO.	NATIONAL PARK	DISTANCE (IN KM)
1	Bhitarkanika National Park	154.61
2	Similipal National Park (Proposed)	52.26

SL. NO.	TIGER RESERVE	DISTANCE (IN KM)
1	Similipal Tiger Reserve	53.37
2	Satkosia Tiger Reserve	125.91

SL. NO.	ELEPHANT RESERVE	DISTANCE (IN KM)
1	Mayurbhanj Elephant Reserve	10.12
2	Mahanadi Elephant Reserve Existing	127.61
3	Mahanadi Elephant Reserve Proposed	122.39
4	Sambalpur Elephant Reserve Existing	118.09
5	Sambalpur Elephant Reserve Proposed	91.26

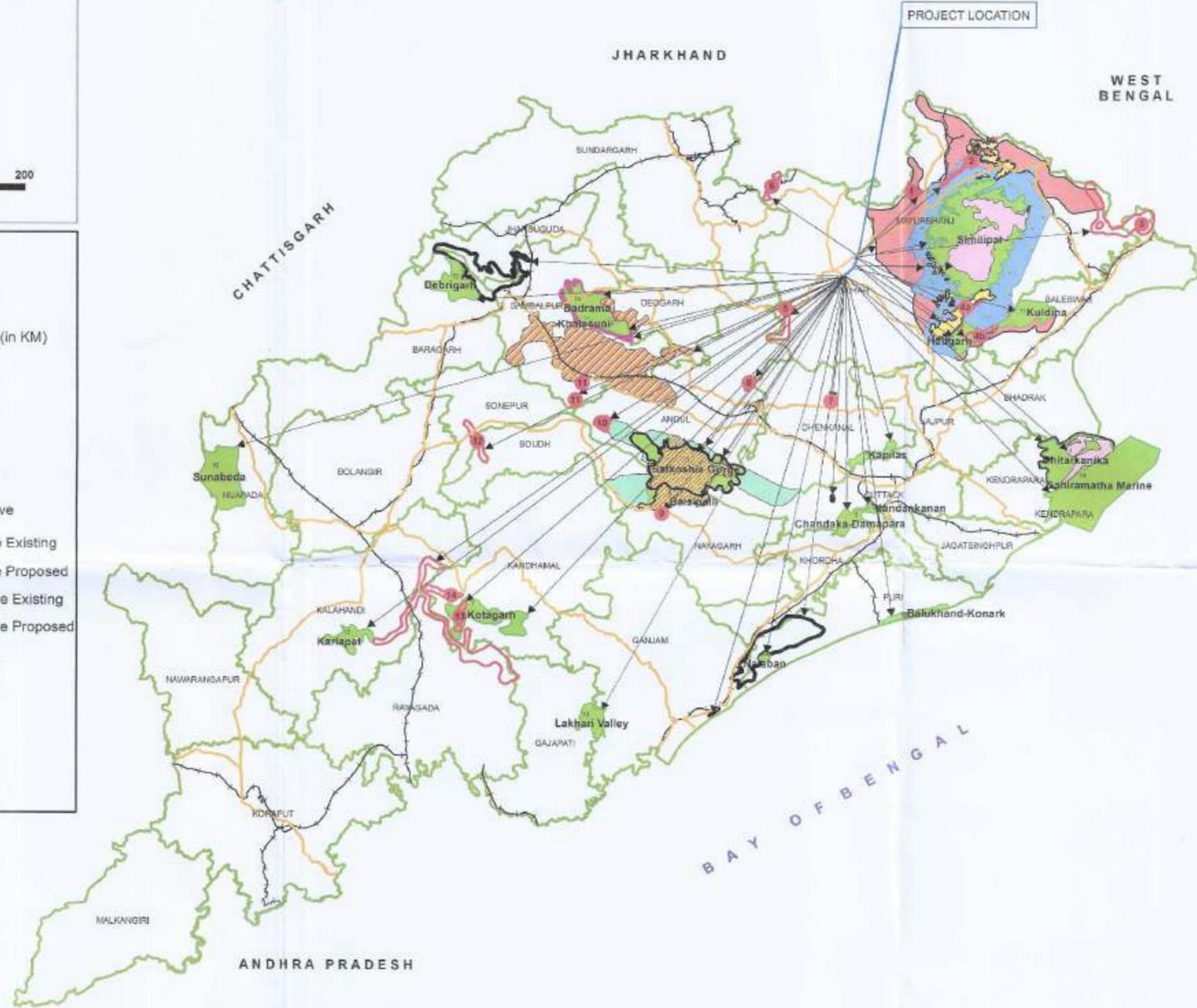
SL. NO.	BIOSPHERE RESERVE	DISTANCE (IN KM)
1	Similipal Biosphere Reserve	36.58

SL. NO.	RAMSAR SITES	DISTANCE (IN KM)
1	Chilika Lake	195.27
2	Anshupa Lake	124.30
3	Tampara Lake	259.67
4	Bhitarkanika	141.92
5	Satkosia Gorge	121.02
6	Hirakud Reservoir	167.35



LEGEND

- Tiger Reserve
- Distance to Sanctuaries etc (in KM)
- National Highways
- Railway Line
- Project Location
- Elephant Corridor
- Wildlife Sanctuaries
- Mayurbhanj Elephant Reserve
- Mahanadi Elephant Reserve Existing
- Mahanadi Elephant Reserve Proposed
- Sambalpur Elephant Reserve Existing
- Sambalpur Elephant Reserve Proposed
- Similipal Biosphere Reserve
- National Park
- Ramsar Site
- District Boundary
- 10 KM Zone of Influence

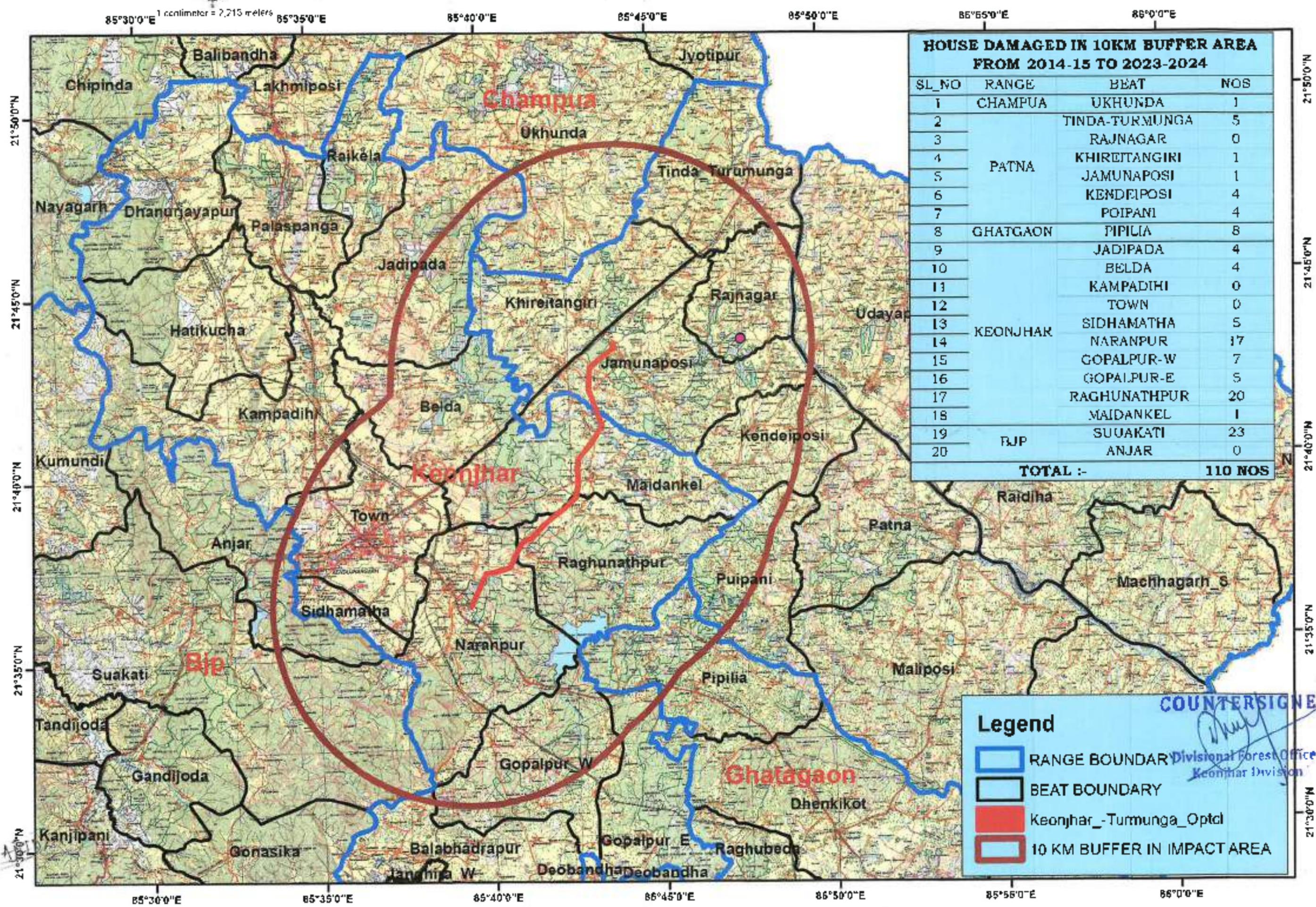


REFERENCE MAP WILDLIFE ODISHA BOOK

COUNTERSIGNED
[Signature]
 Divisional Forest Officer
 Keonjhar Division

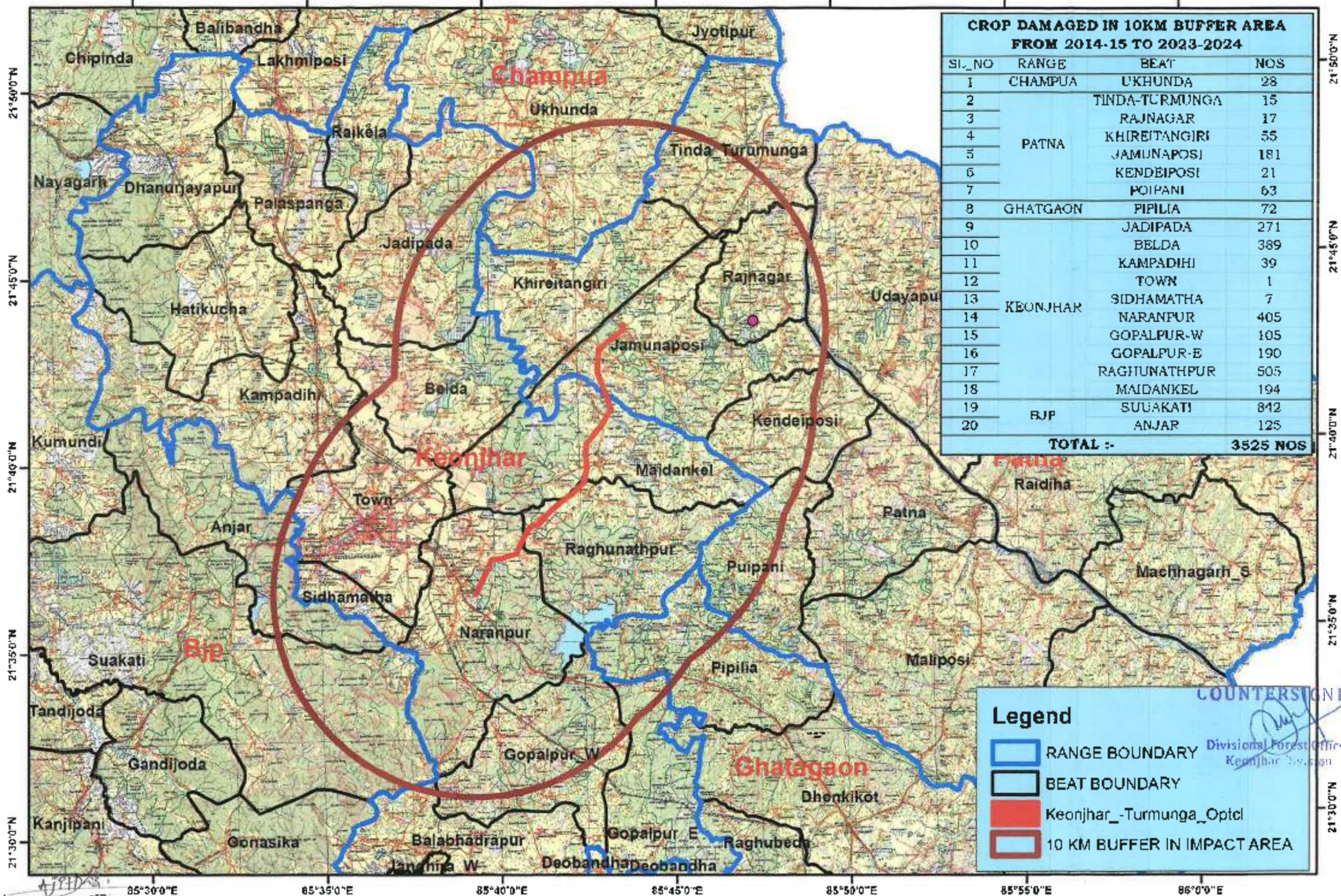


HOUSE DAMAGED IN IMPACT AREA (KEONJHAR TO TURMUNGA TRANSMISSION LINE OF OPTCL)



CROP DAMAGED IN IMPACT AREA (KEONJHAR TO TURMUNGA TRANSMISSION LINE OF OPTCL)

85°30'0"E 1 centimeter = 2 213 meters 85°35'0"E 85°40'0"E 85°45'0"E 85°50'0"E 85°55'0"E 86°0'0"E



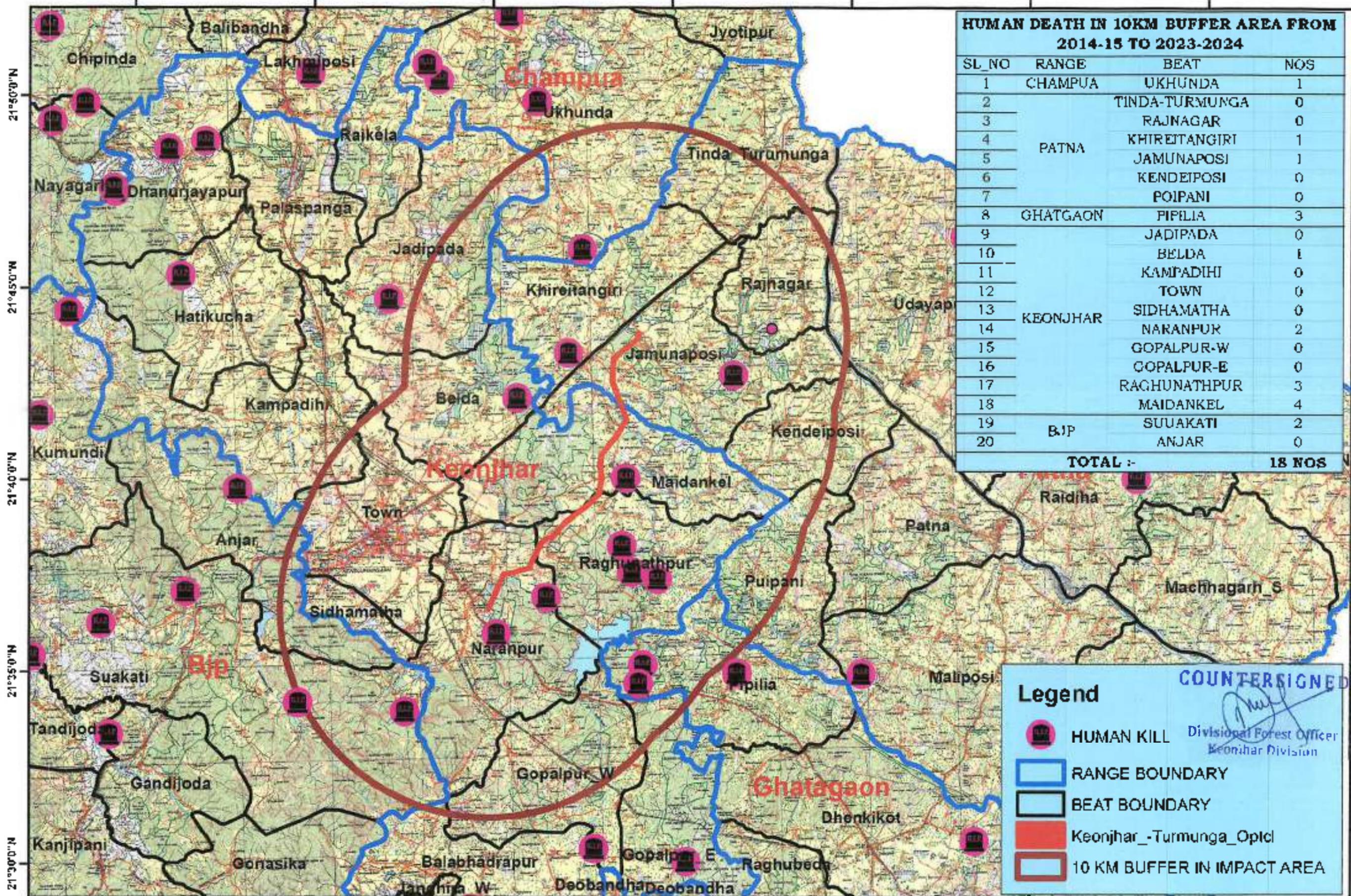
Legend

- RANGE BOUNDARY
- BEAT BOUNDARY
- Keonjhar_-Turmunga_Optcl
- 10 KM BUFFER IN IMPACT AREA

COUNTERSIGNATURE
 Divisional Forest Officer
 Keonjhar Division

HUMAN KILL IN IMPACT AREA (KEONJHAR TO TURMUNGA TRANSMISSION LINE OF OPTCL)

85°30'0"E 1 centimeter = 2.213 meters 85°35'0"E 85°40'0"E 85°45'0"E 85°50'0"E 85°55'0"E 86°0'0"E



HUMAN DEATH IN 10KM BUFFER AREA FROM 2014-15 TO 2023-2024

SL_NO	RANGE	BEAT	NOS
1	CHAMPUA	UKHUNDA	1
2	PATNA	TINDA-TURMUNGA	0
3		RAJNAGAR	0
4		KHIREITANGIRI	1
5		JAMUNAPOSI	1
6	GHATGAON	KENDEIPOSI	0
7		POIPANI	0
8		PIPLIA	3
9		JADIPADA	0
10	KEONJHAR	BELDA	1
11		KAMPADIHI	0
12		TOWN	0
13		SIDHAMATHA	0
14		NARANPUR	2
15		GOPALPUR-W	0
16		GOPALPUR-E	0
17		RAGHUNATHPUR	3
18	MAIDANKEL	4	
19	BJP	SUAKATI	2
20		ANJAR	0
TOTAL :-			18 NOS

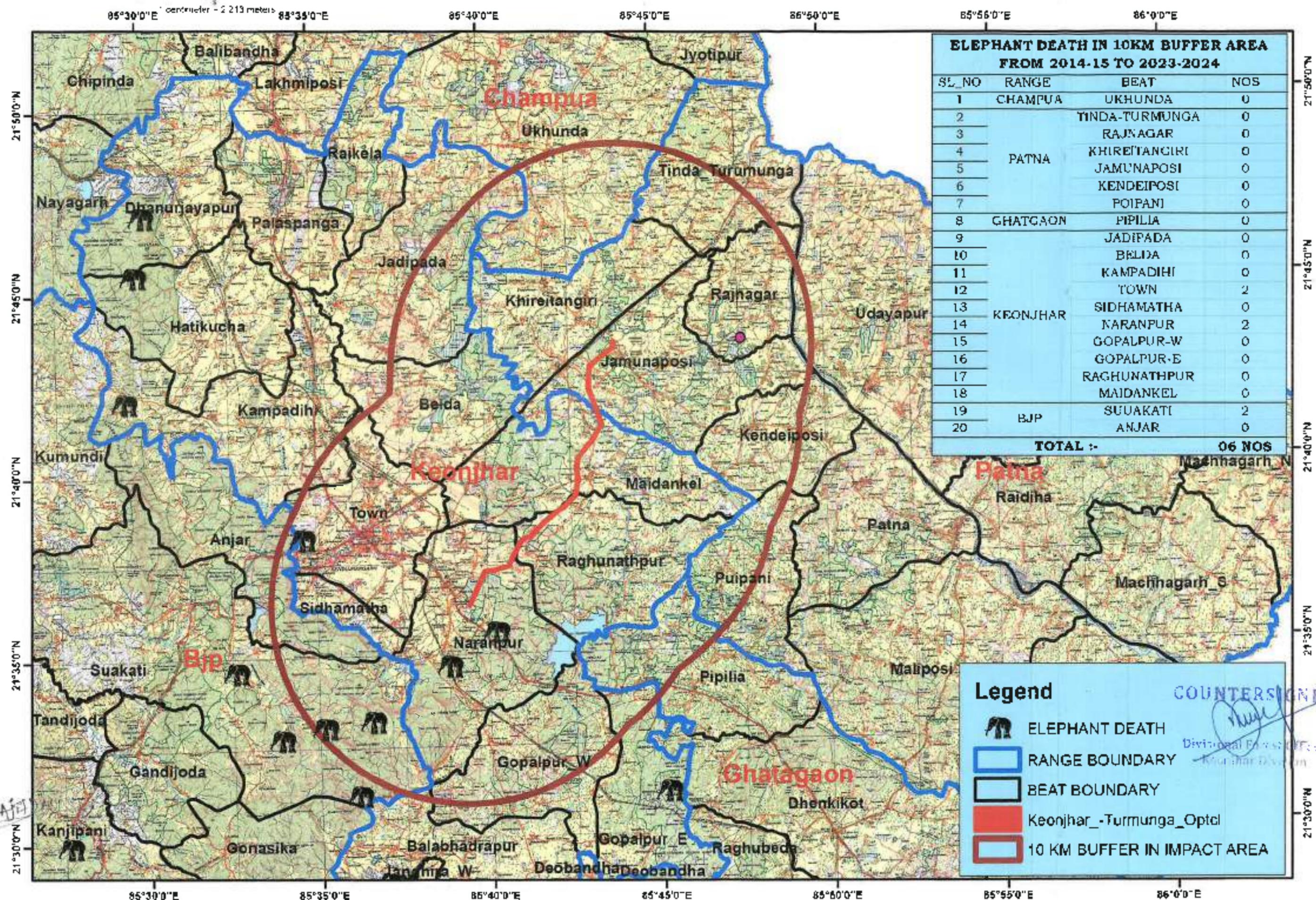
Legend

- HUMAN KILL
- RANGE BOUNDARY
- BEAT BOUNDARY
- Keonjhar_-Turmunga_Optcl
- 10 KM BUFFER IN IMPACT AREA

COUNTERSIGNED
 Divisional Forest Officer
 Keonjhar Division

85°30'0"E 85°35'0"E 85°40'0"E 85°45'0"E 85°50'0"E 85°55'0"E 86°0'0"E

ELEPHANT DEATH IN IMPACT AREA (KEONJHAR TO TURMUNGA TRANSMISSION LINE OF OPTCL)



Legend

- ELEPHANT DEATH
- RANGE BOUNDARY
- BEAT BOUNDARY
- Keonjhar_-Turmunga_Optcl
- 10 KM BUFFER IN IMPACT AREA

COUNTERSIGNATURE
 [Signature]
 Divisional Forest Officer
 Keonjhar Division

CF
12/9/24
[Signature]

1182



FORM NO.1
(For Linear Projects)
Government of Odisha
OFFICE OF THE DISTRICT COLLECTOR : KEONJHAR
No. 1953 /Rev. Dt. 13 / 09 /2024
XIX-80/2024

TO WHOMSOEVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forests (MoEF), Government of India's Letter No.11-9/98-FC-(Pt) dt.3rd August'2009 wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights Act)'2006 ('FRA' for short) on the forest land proposed to be diverted for non-forest purpose read with MoEF's letter dated 5th February'2013 wherein MoEF issued certain relaxation in respect of linear projects, it is certified that, area measuring 8.435 ha. of forest land proposed to be diverted in favour of M/s. OPTCL, Keonjhar for construction of 220KV Transmission line from 400/220 KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/132KV & 220/33KV Grid Sub-Station, Turumunga at Godipokhari falls within jurisdiction of village Manoharpur, Dhurudupal, Keri, Alanapada & Naranpur Reserve Forest under Sadar Tahasil Keonjhar and village-Dalanga & Godipokhari under Patna Tahasil.

It is certified that,

- (a) The complete process for identification and settlement of rights under the FRA has been carried out for the entire 8.435Ha. of forest land proposed for diversion. Copy of all requisite documents including the proceeding of SDLC, Keonjhar meeting and a copy of the proceeding of DLC meeting are enclosed as annexure- 1 to annexure-8.
- (b) No such facilities managed by Government requiring diversion of forest land u/s 3(2) of Forest Rights Act'2006 exist over the forest land proposed for diversion.
- (c) The proposal does not involve recognized rights of Primitive Tribal Groups and Pre-agricultural communities.

[Signature]
Collector, Keonjhar

Memo No. 1954 /Rev. Dt. 13 / 09 /2024

Copy of the certificate alongwith related documents (Annexure-1 to 8) forwarded to the D.F.O. Keonjhar Division, Keonjhar for information and necessary action.

[Signature]
Addl. District Magistrate,
Keonjhar

**PROCEEDINGS OF THE DISTRICT LEVEL COMMITTEE MEETING ON
FOREST RIGHTS ACT HELD ON 07.08.2024 AT 11.00 AM IN THE MINI
CONFERENCE HALL OF COLLECTORATE, KEONJHAR**

.....

The District Level Committee meeting on Forest Rights Act was held on 07.08.2024 at 11.00 AM in the Mini Conference Hall of Collectorate, Keonjhar. The meeting was chaired by the Collector-cum-Chairman, District Level Committee on Forest Rights. The meeting was attended by the following members.

- | | |
|-----------------------------------|---|
| 1. Sri Vishal Singh, IAS | - Collector-cum-Chairman, DLC, FRA |
| 2. Sri Lalit Soreng, OAS | - Additional District Magistrate, Keonjhar |
| 3. Sri Surendranath Hembram, OFS | - ACF, Keonjhar on behalf of DFO, Keonjhar |
| 4. Sri Abhay Ku Dalai, OFS | - DFO (Wildlife), Anandapur |
| 5. Sri Soumya Sarthak Mishra, OAS | - PA, ITDA, Keonjhar-cum-Nodal Officer, FRA |
| 6. Sri Ratha Munda | - Member, Zilla Parishad, Keonjhar |
| 7. Smt Shantilata Rana | - Member, Zilla Parishad, Keonjhar |
| 8. Sri Prabir Kumar Deo, OWS | - DWO, Keonjhar |

The PA, ITDA, Keonjhar-cum-District Nodal Officer, FRA extended a warm welcome to the member present on behalf of the Chair and initiated the discussion agenda wise, inviting the opinion of the members present.

1) Confirmation of Proceedings of the D.L.C. meeting held on 12.03.2024

The proceedings of the last D.L.C. meeting held on 12.03.2024 communicated to all the members vide Memo No.584/ITDA(K)/Dated.30.03.2024. No objection received from any quarter. So, the Committee approved the said proceedings.

The DLC proceedings dt.12.03.2024 is approved.

2) HABITAT RIGHTS

The Sub-Collector, Keonjhar-cum-Chairman, SDLC has submitted one Habitat Rights claim (Juang Maha Pidha) under Forest Rights Act, 2006 with the following Habitations recommended by SDLC, Keonjhar in their meeting dtd.24.07.2024 for approval in DLC.

Name of Habitation	Name of the Tahasil	Area (in Hecctor)	
		Habitat	Forest
Charigarh Upa Pidha	Telkoi	92273.30	21213.40
Satakhanda Upa Pidha	Banspal	10997.70	0
Kathua Upa Pidha	Banspal	37127.00	1318.20
Jharkhand Upa Pidha	Banspal	25106.70	1179.70
Rebana Upa Pidha	Harichandanpur	43049.60	17772.80
Hunda Upa Pidha	Harichandanpur & Ghatagaon	37830.97	7738.75
TOTAL		246385.27	49222.85

The DLC examined all the reports of the said proposal submitted by the Sub-Collector-cum-Chairman, SDLC, Keonjhar and approved for issue of Habitat Right - namely "JUANG MAHA PIDHA" in favour of the Juang Community which includes the above six habitations.

3) Diversion of forest land for non-forest activities -issuance of Certificate under FRA, 2006

The following diversion proposals have been received for diversion of forest land for non-forest activities- Issuance of certificate there of: -

Sl No	Name of the User Agency	Purpose	Name of the Tahasil	Area
A	M/s OPTCL, Keonjhar	For construction of 220 KV Transmission line from 400/220 KV PGCIL Grid Sub-Station to proposed 220/132 KV and 220/33 KV Grid Sub-Station, Turumunga at Godipokhari	Keonjhar & Patna	8.435 Ha.
B	Tata Steel Ltd	For mining purpose	Barbil	809.874 Ha.

(A) M/s. OPTCL, Keonjhar

The User Agency M/s. OPTCL, Keonjhar applied for diversion of 8.435 Ha. of forest land under Keonjhar and Patna Tahasil for non-forest activity i.e. for construction of 220 KV

Transmission line from 400/220 KV PGCIL Grid Sub-Station to proposed 220/132 KV and 220/33 KV Grid Sub-Station, Turumunga at Godipokhari. On receipt of requisition filed by the user agency, the Collector, Keonjhar vide District Office letter No. 2058/Rev. Dated.24.08.2023 directed the Project Administrator, ITDA, Keonjhar-cum-District Nodal Officer, FRA to enquire into the case on settlement of rights under FRA in the forest area involved in proposed area of the project and submit the findings in the prescribed format within the stipulated period.

The PA, ITDA, Keonjhar forwarded the proposal to the Tahasildar, Keonjhar/Patna vide letter No. 2788/ITDA(K)/Dated.16.12.2023, No. 653/ITDA(K)/Dated.19.04.2024 in subsequent memos to the BDO, Keonjhar/Patna for necessary enquiry into the matter on settlement of rights under FRA in the forest area and submit the report along with **FORM-1** (for linear project) to the SDLC, Keonjhar.

The Sub-Collector, Keonjhar-cum-Chairman, SDLC submitted the report after due recommendation by SDLC dtd. 24.07.2024 vide his Letter No.6254/dtd.25.07.2024 in respect of 8.435 Ha. of forest land under Keonjhar & Patna Tahasil for construction of 220 KV Transmission line from 400/220 KV PGCIL Grid Sub-Station to proposed 220/132 KV and 220/33 KV Grid Sub-Station, Turumunga at Godipokhari along with **FORM-1** (for linear project) of Tahasildar, Keonjhar and Tahasildar, Patna.

The DLC examined all the reports of the said proposal submitted by the Sub-Collector-cum-Chairman, SDLC, Keonjhar and approved for issue of FRA certificate in respect of area 8.435 Ha. in favour of the user agency M/s. OPTCL Ltd.

(B) Tata Steel Ltd.

The User Agency the Tata Steel Ltd applied for diversion of 809.874 Ha. of forest land for non-forest activity i.e. for mining activity in Joda West Iron & Manganese Mine. On receipt of requisition filed by the user agency, the Collector, Keonjhar vide District Office letter No 2053/Rev7dtd.22.09.2016 directed the Project Administrator, ITDA, Keonjhar-cum-District Nodal Officer, FRA to enquire into the case on settlement of rights under FRA in the forest area involved in proposed area of the project and submit the findings in the prescribed format within stipulated period.

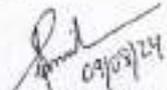
The PA, ITDA, Keonjhar forwarded the proposal to the Block Development Officer, Joda vide letter No.2691/ITDA/Dtd.13.10.16 and in subsequent memo to the Tahsildar, Barbil for necessary enquiry into the matter on settlement of rights under FRA in the forest area and to obtain the consent of the Grama Sabha in light as observed by the Secretary, MoTA, Government of India and submit the report along with **Form-II** to the SDLC, Champua.

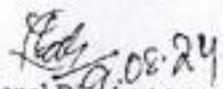
The Sub-Collector-cum-Chairman, SDLC, Champua submitted the report after due recommendation in the SDLC dt. 31.07.2024 vide his Letter No.5322/dtd.05.08.2024 in respect of 809.874 Ha. of forest land under Barbil Tahasil for production of Iron Ore in Joda West Iron and Manganese by M/s Tata Steel Ltd, Form-II of Tahasildar, Barbil. The Ward Sabha proceedings of ward no.9 & 11, 10, 11, 13 & 14, of Joda Municipality and Gram Sabha proceedings of Bhuyanroida, Kunduripani village under Bhuyanroida GP was received for 493.0729 Ha. of forest land for non-forest purpose and quorum was maintained in all Ward Sabhas and Gram Sabhas. Also, the proposed area includes an area of 316.8011 Ha. forest land in Baitarani Reserve Forest. The details of which is given below:

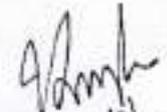
Sl. No.	Name of GP/ Municipality	Name of Village/ Ward	Area (in Hector) for which Gram/ Ward Sabha Conducted
1	Bhuyanroida	Bhuyanroida	1.6328
2		Kunduripani	0.0242
3	Joda	Ward No.10	142.477
4		Ward No.14	225.275
5		Ward No.9 & 11	93.869
6		Ward No.13	29.795
7	Baitarani Reserve Forest		316.8011
TOTAL			809.8741

The DLC examined all the reports of the said proposal submitted by the Sub-Collector-cum-Chairman, SDLC, Champua and approved for issue of FRA certificate in respect of area 809.874 Ha. in favour of the user agency M/s. Tata Steel Ltd.

The meeting ended with a vote of thanks to the Chair and the members present for their consent.


Project Administrator
ITDA, Keonjhar


Additional District Magistrate
Keonjhar


Collector-cum-Chairman
DLC, FRA, Keonjhar

ANNEXURE: 2

PROCEEDING OF THE S.D.L.C. (FR) MEETING HELD ON Dt.24.07.2024 AT 11.00 A.M IN THE OFFICE CHAMBER OF SUB-COLLECTOR, KEONJHAR.

The Sub-divisional level committee (SDLC) meeting under Forest Rights Act 2006 and Amendment Rule 2012 held under the Chairmanship of the Sub-Collector-cum-Chairperson, SDLC, Keonjhar in the Office chamber of the Sub-Collector, Keonjhar on Dt.24.07.2024 at 11.00 A.M. The Sub-Collector-cum-Chairperson (FR) presided over the meeting. The participants attended the meeting is attached as Annexure-1.

At the outset, the Chairman welcomed all participants and thanked all members for their heartiest cooperation in implementing the F.R.A in the Sadar Sub-division. Thereafter the agenda wise discussion was made as follows:-

Confirmation of the proceedings of the S.D.L.C (FR) Meeting held on 03.11.2023.

It is seen that no objection to the proceeding of the SDLC (FR) meeting held on 03.11.2023 has been received from any quarters. Hence the proceeding of the meeting is taken to be confirmed.

1. Submission of one no of Linear Project to the DLC.

The ADWO, Sadar, Keonjhar presented one transmission line proposal (Linear project) from 400/220 KV PGCIL Grid Sub-station, Keonjhar to proposed 220/132 KV and 220/33 KV Grid sub-Station, Turumunga at Godipokhari by M/S OPTCL, Keonjhar covering below measuring for an area in AC 18.675 and 37.604 in Hc.

Abstract of schedule of Revenue Forest/Reserve Forest land of Sadar Tahsil for construction of 220 KV D/C line from PGCIL 400/200 KV Grid substation,Keonjhar to Turumunga

S. NO.	VILLAGE NAME / P. NAME	FOREST LAND (Hc.)	
		REVENUE FOREST	RESERVE FOREST
1	Boda Mancharpur	0.816	2.000
2	Ghatadupal	0.197	0.000
3	Beri	1.431	0.000
4	Palampada	0.570	0.000
Total area in Hc		3.014	
Total area in Ac		8.507	
5	Godipokhari(Reserve Forest)	0.000	4.092
Total area in Hc			4.092
Total area in Ac			10.111
Grand Total		7.556 (in Hc.) 18.675 (in Ac.)	

Abstract of land schedule of Patna Tahasil for construction of 220 KV D/C line from PGCIL 400/200 KV Grid substation Keerbar to Turamunga.

Sl. No.	Tahasil Name	Village Name- Rf Name	Forest Land (Ha)			Total Forest	Govt. Land	Pvt. Land	Total (Non-Forest) Land	Grand Total
			Revenue Forest Hal	Sabik	Reserve Forest					
122	Patna	Dalanga	0.289	0.271	0.000	0.560	0.251	7.850	8.111	8.671
		Talapada	0.000	0.000	0.000	0.000	0.058	0.438	0.496	0.496
		Godipokhari	0.000	0.317	0.000	0.317	3.068	2.666	5.734	6.051
Total area in Ha.			0.289	0.588	0.000	0.877	3.357	10.984	14.341	15.218
Total area in Ac.			0.714	1.453	0.000	2.167	8.295	27.141	35.437	37.603

The Tahasildar, Sadar present in the meeting stated that as stipulated in clause (c) read with clause (b) and (f) in second para of MoEF guidelines of the Central Govt. under the forest (conservation) Act,1980 vide No.F No.11-9/1998-FC(PT), dated 03.08.2009 and subsequent letter dated 5th February 2013, proposals seeking prior approval of Central government under Forest (Conservation) Act,1980 for projects like construction of roads, canals, pipelines/optical fiber and transmission lines etc. where linear diversion of use of forest land in several villages are involved, unless recognized right of PTG/PAC are being affected are exempted from the requirement of obtaining consent of the concerned Gram Sabha(s). The Tahasildar, Sadar had also issued the Certificate to this effect in Form-1 for Linear project annexed herewith. As such, the committee unanimously decided to recommend the proposal to the District Level committee (Forest Right) for approval and issue of Certificates.

2.) Approval of Habitat Rights claims under section 3-1(e) , Rule 12(1)d of Forest Right Act,2006

The position of Habitat Right claims which placed below was thoroughly discussed in the meeting placed 6 nos of Habitat Rights claims for approval under section 3-1 (e), Rule-12(1) d of forest Right Act,2006 recommended by the Grama Sabha in respect of Telkoi, Banspal and Harichandanpur. All these 6 nos of records were unanimously approved in the meeting and recommended the claims to DLC (FR) for consideration. The detail position is given below.

Position of of ST Habitat Rights claims

Sl.No	Name of the Tahasil	No. of Habitat rights claims belonging to ST community received from Tahasil	No of Habitat right claims belonging to ST community approved in the SDLC
1	Telkoi	1	1
2	Banspal	3	3
3	Harichandanpur	2	2
	Total	6	6

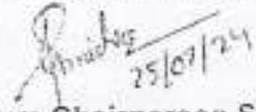
3.Re-enquiry of 138 nos. of IFR and 13 nos of CR/CFRR clims and one no of Linear Projects

The following 138 nos. of IFR and 13 nos of CR/CFRR and one no of Linear Project in favour of M/S of Odisha Mining Corporation Limited as detailed below are returned to concerned Tahasildars for necessary compliance.

Sl.No.	Name of the Tahasil	IFR,CR/CFRR Case record returned to Tahasildars	L.No. & Date
1	Harichandanpur	65(IFR)	6246/25.07.2024
2	Patna	70 (IFR)	6248/25.07.2024
3	Banspal	03 (IFR)OTFD	6250/25.07.2024
4	Harichandanpaur	01(Linear Project)	6243/25.07.2024

Lastly Sri Susanta Kumar Dalei, Regional Co-ordinator, Vasundhara NGO briefed the Committee on various functional activities, rules and Regulation relating to FRA, 2006 with permission of the Chair.

The meeting ended with votes of thanks to the chair and all participants.


Sub-Collector -Cum-Chairperson,SDLC(FRA)
L.Keonjhar

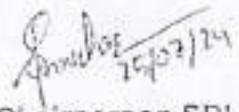
Memo no. 6254 /date,25.07.2024

Copy submitted to the Collector & District Magistrate Keonjhar for favour,of kind information and necessary action.

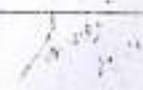
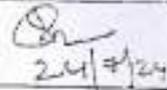
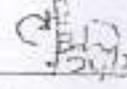
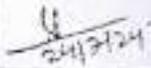
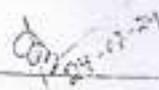
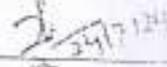
Copy forwarded to all members of SDLC(FR) Keonjhar for information.

Copy submitted to the PA, ITDA, Keonjhar-cum-District Nodal Officer (FRA) for information along with transmission line of OPTCL(Linear Project) and 6 nos. of habitat rights.

Copy forwarded to all BDOs/ all Tahasildars of Sadar Sub-Division/ Special Officer JDA Gonasika for information and necessary action.


Sub-Collector -Cum-Chairperson,SDLC(FRA)
L.Keonjhar

**MEMBERS PRESENT IN THE SUB-DIVISIONAL LEVEL COMMITTEE ON FOREST
RIGHT HELD ON 24.07.2024 AT 11.00 A: M, IN THE OFFICE CHAMBER OF
SUB- COLLECTOR OFFICE, KEONJHAR**

Sl.No.	Name with Designation	Contact No	Signature
1	Sub-Collector, SDLC, FRA, Keonjhar	8480743303	
2	Surendra Kumar Sahoo, Jaladhar, Keonjhar	8117025961	 24/7/24
3	Manojan Bala, M. Sub-Officer	9668718968	 24/7/24
4	Kaptesh Nayak, WFO, Salar	7894848343	 24/7/24
5	Anita Nayak P.S. Member	8144689807	Anita Nayak
6	Jitendra Kumar Behun Ofs ACF, Keonjhar	9356836700	 24/7/24
7	Bhubaneswari Mohanta I/c Adva, Keonjhar	9438860848	 24-7-24
8	Ratnanjan Mohanta Asst. Officer, Sub-Office, Keonjhar	7008905969	 24/7/24
9	Jeevananjan Thang P. S. Member	9692558370	 24/7/24

OFFICE OF THE TAHASILDAR, SADAR, KEONJHAR
A/P.O- KEONJHAR, DIST:-KEONJHAR,ODISHA, PIN:-758001

No. 3535 /Rev. /Dtd. 23/07/2024

To

The Sub-Collector-cum-Chairman, SDLC, Keonjhar .

Sub : Issue of Certificate under FRA'2006 in respect of forest land measuring 7.558 (HAL)/7.558 (SABIK) Hectares for construction of 220KV Transmission line from 400/220 KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/132KV & 220/33KV Grid Sub-Station, Turumunga at Godipokhari by M/s. OPTCL Keonjhar.

Ref:- Your Letter No.5721 /Date 09.07.2024

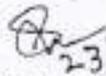
Sir,

In inviting a kind reference to the letter on the subject cited above, I am to submit herewith the joint verification FRA clearance certificate in Form No.1 under FRA,2006 in respect of forest land measuring 7.558 (HAL)/7.558 (SABIK) Hectares for construction of 220KV Transmission line from 400/220 KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/132KV & 220/33KV Grid Sub-Station, Turumunga at Godipokhari by M/s. OPTCL Keonjhar for SDLC clearance.

This is for kind information and necessary action.

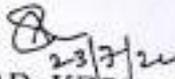
Encl: Form No.1
Joint Verification Report
Map & Land scheduled

Yours faithfully,


23/7/24
TAHASILDAR, KEONJHAR
TAHASILDAR

Memo No. 3536 / dtd. 23/7/2024

Copy submitted to the Project Administrator, ITDA, Keonjhar for kind information and necessary action with reference to Memo No.5722/dtd. 09.07.2024 of Sub-Collector, Keonjhar.


23/7/24
TAHASILDAR, KEONJHAR
TAHASILDAR
KEONJHAR

Memo No. 3537 / dtd. 23/7/2024

Copy submitted to the Collector, Keonjhar for kind information and necessary action with reference to Memo No.5723/dtd. 09.07.2024 of Sub-Collector, Keonjhar.


23/7/24
TAHASILDAR, KEONJHAR
TAHASILDAR
KEONJHAR

FORM NO.1
(For liner projects)
Government of Odisha

ANNEXURE-3

OFFICE OF THE TAHASILDAR, SADAR, KEONJHAR

Letter No. 2056 / Dtd. 16/4 / 2024

TO WHOMSOEVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forest (MoEF), Government of India's Letter No.11-09/98-FC, (pt) dtd 3rd August 2009 where in the MoEF issued guidelines on submission of evidences for having initiated and completed the progress of settlement of rights under the Schedule Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights Act) 2006 ('FRA' in short) on the Forest land proposed to be diverted for non-forest purposes, read with MoEF's letter dtd. 5th February 2013, wherein MoEF issued certain relaxation in respect of liners projects, it is certified that 7.558 (HAL)/7.558 (SABIK) Hectares [Bada Manoharpur- 0.816, Dhurudupal-0.142, Keri-1.831, Alanapada-0.677 in Hacter) and Narayanpur Reserve Forest - 4.092 (**RF-4.092 + Village Forest-3.466= 7.558 Hectare**) of Forest land proposed to be diverted in favour of M/s OPTCL, Keonjhar (name of user agency) for construction of 220KV Transmission Line from 400/220KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/33KV Grid Sub- Station, Turumunga at Godipokhari (purpose for diversion of forest land) in Keonjhar district falls within jurisdiction of Bada Manoharpur, Dhurudupal, Keri, Alanapada villages & Narayanpur Reserve Forest under Keonjhar, Sadar Tahasil.

It is further certified that,

- The complete process for identification and settlement of rights under the FRA has been carried out for the entire **RF-4.092 + Village Forest-3.466= 7.558 Hectare** [Bada Manoharpur- 0.816, Dhurudupal-0.142, Keri-1.831, Alanapada-0.677 in Hacter) and Narayanpur Reserve Forest - 4.092 Hal hectares of forest area proposed for diversion. No title has been issued on the forest land proposed for the diversion.
- No such facilities managed by Govt. requiring diversion of forest land U/s 3 (2) of the FR Act 2006 exists over forest land proposed for diversion.
- The proposal does not involve recognized rights of primitive Tribal Groups and Pre-Agricultural Communities.

H. H. Das
FOREST RANGE OFFICER
Forest Range Officer
Keonjhar Range

H. H. Das
16/4/24
TAHASILDAR, KEONJHAR
TAHASILDAR
KEONJHAR

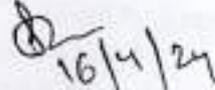
Note

Perused the Letter No: 2788/ITDA(K) Dated 16.12.2023 of PA,ITDA,Keonjhar in which he requires information in Form No:1 (for linear project) for construction of 220KV Transmission Line from 400/220KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/33KV Grid Sub-Station ,Turumunga at Godipokhari by OPTCL ,Keonjhar.

Information accordingly is prepared ,if please send the same proper channel.

DFA

M. K. S. S.
16/4/24
DA


16/4/24
TAHASILDAR, KEONJHAR

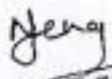
Joint Verification Report

(A) The process for identification and settlement of **RF-4.092** (Narayanpur, Reserve Forest-4.092 hectares) + **Village Forest-3.466**=**Total 7.558 Hacter** [(Bada Manoharpur- 0.816, Dhurudupal-0.142, Keri-1.831, Alanapada-0.677 in Hacter) and] has been carried out for diversion in favour of M/s OPTCL, Keonjhar for construction of 220KV Transmission line from 400/220 KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/132KV & 220/33KV Grid Sub-Station, Turumunga at Godipokhari as revealed from the factual report submitted by officials of Tahasil Keonjhar, Forest Range Officer, Keonjhar.

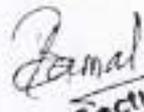
(B) It reveals from the enquiry report furnished by team constituted with Revenue Inspector of Raghunathpur and Mandua, Amin FRA, Forest Range Officer, Keonjhar that there is no any IFR/CFR settled in the said land proposed to be diverted for construction of 220KV Transmission line from 400/220 KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/132KV & 220/33KV Grid Sub-Station, Turumunga at Godipokhari by M/s. OPTCL Keonjhar in the above said villages. Also there is no Primitive Tribal Groups and Pre-Agricultural Communities residing in the affected area/the area proposed for above project.


23/07/2024
Revenue Inspector,
Mandua, Keonjhar


23.07.2024
Revenue Inspector
Raghunathpur
Keonjhar


AMIN FRA 23.07.2024
SADAR TAHASIL
KEONJHAR


EHT/Control Section
OPTCL Keonjhar
TAHASILDAR
KEONJHAR


23/7/24
Forest Section Officer
Naranpur Section
Forest Range Officer
Keonjhar Range

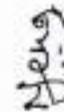
Abstract of schedule of Revenue Forest/Reserve Forest land of Sadar Tahasil for construction of 220 KV D/C line from PGCIL 400/200 KV Grid substation, Keonjhar to Turumunga

Sl NO.	VILLAGE NAME /RF NAME	FOREST LAND (Ha/Ac)	
		REVENUE FOREST	RESERVE FOREST
1	Bada Monaharpur	0.816	0.000
2	Dhurudupal	0.142	0.000
3	Keri	1.831	0.000
4	Alanapada	0.677	0.000
Total area in Ha		3.466	-
Total area in Ac		8.564	-
5	Narayanpur(Reserve Forest)	0.000	4.092
Total area in Ha		-	4.092
Total area in Ac		-	10.111
Grand Total		7.558 (in Ha.) 18.675 (in Ac.)	


 23/07/2024
 Revenue Inspector
 Mandua, Keonjhar


 23-07-2024
 Revenue Inspector
 Raghunathpur
 Keonjhar


 Deputy Section Officer
 (SAD) (Const) Division
 Keonjhar


 23.07.2024
 AMIN FRA
 SADAR TAHASIL
 KEONJHAR


 23/7/24
 TAHASILDAR
 KEONJHAR


 Deputy Section Officer
 Naranpur Section
 Forest Range Office
 Keonjhar Forest


 Deputy Section Officer
 Forest Range Office
 Keonjhar Forest



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SAHABATIN
KEHENDAK

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OFFICE OF THE TAHASILDAR, PATNA

Letter No-1039 \Date-08.04.2024

To,

The P.A ITDA Keonjhar-Cum-Dist.Nodal Officer, FRA

Sub: Submission of certificate under FRA' 2006 in respect of forest land measuring 8.435 Ha.in village - Dalang & Godipokhari under patna Tahasil for construction of 220KV Transmission line from 400/220 KV PGCIL Grid 220/33KV Grid Sub-Station, Turumunga at Godipokhari by M/S. OPTCL, Keonjhar.

Ref- Letter No-2788/ITDA (K) Dt-16/12/2023.

Sir,

In inviting reference to the subject cited above. I am Submit herewith the certificate under FRA 2006 in respect of forest land measuring 8.435 Ha.in village -Dalang & Godipokhari under Patna Tahasil for construction of 220KV Transmissing line from 400/220 KV PGCIL Grid 220/33KV Grid Sub-Station, Turumunga at Godipokhari by M/S. OPTCL, Keonjhar .

This is for favor of your kind information and necessary action.

Yours faithfully

Encl:- Form No: 1(For linear Project)

Memo No-1039 Dt-08.04.2024

Copy to the Collector Keonjhar for kind information and necessary action at your end.

Copy to the Sub-Collector Keonjhar, to the BDO Patna for kind information and necessary action at your end.

08.04.24
Tahasildar, Patna
TAHASILDAR
PATNA

08.04.24
Tahasildar, Patna
TAHASILDAR
PATNA

ANNEXURE-6

FROM NO.1
(For linear projects)
Government of Odisha

OFFICE OF THE TAHASILDAR, PATNA, DIST: KEONJHAR

Letter No. 1039

Date 8.4.24

TO WHOMSOEVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forest (MoEF), Government of India's letter No.11-9/98-FC, (P1) dt.3rd August 2009 wherein the MoEF issued guidelines on submission of evidences for Other Traditional Forest Dwellers (Recognition of Forest Rights Act) 2006 ('FRA' in short) on the Forest land proposed to be diverted for non-forest purposes, read with MoEF's letter dated 5th February 2013, where in MoEF issued certain relaxation in respect of linear projects, it is certified that 0.289 (HAL)/0.0.588 (SABIK) Hectares [DALANG 0.289 Ha and Godipokhari 0.0 Ha] of Forest land proposed to be diverted in favour of M/s OPTCL, Keonjhar (name of user agency) for construction of 220KV Transmission Line from 400/220KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/33KV Grid Sub-Station, Turumunga at Godipokhari (purpose for diversion of forest land) in Keonjhar district falls within jurisdiction of Dalang and Godipokhari village(s) in Patna Tahasil.

It is further certified that:

- The complete process for identification and settlement of rights under the FRA has been carried out for the entire 0.289 (HAL)/0.588 (SABIK) [DALANG 0.289 Ha and Godipokhari 0.0 Ha] hectares of forest area proposed for diversion. No title has been issued on the forest land proposed for the diversion
- No such facilities managed by Govt. requiring diversion of forest land U/s 3 (2) of the FR Act 2006 exists over forest land proposed for diversion.
- The proposal does not involve recognized rights of primitive Tribal Groups and Pre-Agricultural Communities.

Signature

(Full name and officials seal of the Tahasildar, Patna)


08.04.24
Forest Range officer
Patna Range

ANNEXURE-7

Abstract of schedule of land for Patna Tahasil Construction of 220 KV D/C line from PGCIL 400/200 KV Grid substation, Keonjhar to Turumunga.

SL. NO.	VILLAGE NAME/RF NAME	FOREST LAND (Ha)			NON-FOREST LAND (Ha)			GRAND TOTAL
		REVENUE FOREST	RESERVE FOREST	TOTAL FOREST	GOVT LAND	PVT LAND	TOTAL (NON-FOREST) LAND	
1	Dalanga	0.289	0.000	0.289	0.502	7.88	8.382	8.671
2	Talapada	0.000	0.000	0.000	0.058	0.438	0.496	0.496
3	Godipokhari	0.000	0.000	0.000	3.385	2.666	6.051	6.051
Total area in Ha.		0.289	0	0.289	3.945	10.984	14.929	15.218
Total area in Ac.		0.714	0.000	0.714	9.748	27.141	36.890	37.604

45
TAMASILDAR
PATNA

25/11/21
25-11-21

25/11/2021
Revenue Inspector
Kantiapada

25-11-2021
Kantitangiri
Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଓ ପ୍ରବାହନ ନିଗମ ଲି.ଡ.
ODISHA POWER TRANSMISSION CORPORATION LIMITED

(A Government of Odisha Undertaking)
 OFFICE OF THE DEPUTY GENERAL MANAGER (ELECTRICAL),
 EHT (CONSTRUCTION) DIVISION, KEONJHAR.

At- Baladey, Keonjhar Colony, Laxmi, O. B, Jagannathpur, Keonjhar - 758001.
 Telephone: 697661254364. Email: ehtc.div.knj@optcl.co.in

560
 10.05.2023

Letter No.: 342 (5)

Date: 02/05/2023

V/C

To: The Collector-Cum-District Magistrate,
 Keonjhar

Sub: Issuance of certificate under the Forest (Conservation) Act 1980, ensuring compliance of the Schedule Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 for the project "Construction-Of 220KV Transmission Line from 400/220 KV PGCIL Grid Substation, Keonjhar to proposed 220/132KV & 220/33KV Grid Sub- Station, Turumunga at Godipokhari in Keonjhar District of Odisha".

Proposal No.: FP/OR/TRANS/153797/2022 (State Serial No.-OR/028/2022), Dtd.: 08.04.2022

Ref: Guideline of GoI, MoEF&CC dtd.15.01.2014.

Sir,

With reference to the subject cited above, it is to intimate that the above stated project of OPTCL requires diversion of 8.435 Ha. of Forest Land (Reserve Forest- 4.092 Ha. & Revenue Forest- 4.343 Ha.) under Forest (Conservation) Act 1980. The detail map with land schedule along with copy of guideline of GoI, MoEF&CC are being enclosed herewith for onward transmission to the Collector & District Magistrate, Keonjhar for issuance of necessary certificate to be enclosed with the Forest Diversion proposal for necessary compliance and obtaining certificate under Schedule Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006.

This is for favour of kind information and necessary action, please.

Encl: As above.

Yours faithfully,

[Signature]
 02/05/23

Deputy General Manager (Elect.),
 EHT (C) Division, OPTCL, Keonjhar.

- i. The Divisional Forest Officer, Keonjhar Forest Division, keonjhar for kind information and necessary action.
- ii. The ED, Northern Zone, OPTCL, Balasore for kind information.
- iii. The GM (Elect.), EHT (Const.), Circle, OPTCL, Jajpur Road for kind information.
- iv. M/s. Centre for Envotech & Management Consultancy Pvt. Ltd. for information and necessary action.

Central Diary
 District Magistrate, Keonjhar



OFFICE OF THE COLLECTOR AND DISTRICT MAGISTRATE, KEONJHAR
AT/PO-KEONJHAR, DISTRICT: KEONJHAR, ODISHA, PIN-758001
(REVENUE SECTION)

e-mail: revenue.kjr@gmail.com

No. 2058 /Rev Dt. 24.08 /2023
XIX-64/2023

To

The Project Administrator, ITDA, Keonjhar-cum-District
Nodal Officer, Forest Right Act.

Sub.

Issue of Certificate under FRA'2006 in respect of forest land measuring 8.435Ha. in village-Manoharpur, Dhurudupal, Keri, Alanapada & Naranpur Reserve Forest under Sadar Tahasil Keonjhar and village-Dalanga & Godipokhari under Patna Tahasil for construction of 220KV Transmission line from 400/220 KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/132KV & 220/33KV Grid Sub-Station, Turumunga at Godipokhari by M/s. OPTCL Keonjhar.

Sir,

The Deputy General Manager (Elect) EHT(C) Division, OPTCL, Keonjhar has requested for issue of Certificate ensuing compliance of STs & OTFDs(RFR) Act'2006 in respect of forest land measuring 8.435Ha. in village-Manoharpur, Dhurudupal, Keri, Alanapada & Naranpur Reserve Forest under Sadar Tahasil Keonjhar and village-Dalanga & Godipokhari under Patna Tahasil for proposed construction of 220KV Transmission line from 400/220 KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/132KV & 220/33KV Grid Sub-Station, Turumunga at Godipokhari by M/s. OPTCL Keonjhar. He has enclosed the land schedule of the forest land proposed for diversion.

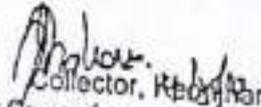
Therefore you are requested to enquire into the matter on settlement of rights under FRA'2006 in respect of the said forest area measuring 8.435Ha. in village- Manoharpur, Dhurudupal, Keri, Alanapada & Naranpur Reserve Forest under Sadar Tahasil Keonjhar and village-Dalanga & Godipokhari under Patna Tahasil and initiate process for issue of certificate under FRA'2006 in favour of M/s. OPTCL Keonjhar and submit your findings in the Format-I specified in this regard after approval in the DLC meeting.

Yours faithfully,

Encl: 1) Copy of Letter of OPTCL, Keonjhar

Memo No. 2059 /Rev Dt. 24.08.2023

Copy forwarded to the Deputy General Manager (Elect) EHT(C) Division, OPTCL, Keonjhar for information and necessary action with reference to his L.No. 342 dt.02.05.2023.


Collector, Keonjhar


Collector, Keonjhar

slc

INTEGRATED TRIBAL DEVELOPMENT AGENCY: KEONJHAR
ST & SC DEVELOPMENT DEPARTMENT, ODISHA
Ph. No.91-6766-255568, E-mail- keonjharitda@gmail.com

No. 3798 /ITDA(K)/Dt. 16/12/2023

To

The Tahasildar,
Keonjhar Sadar / Patna.

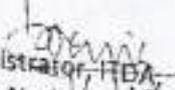
Sub: Issue of Certificate under FRA'2006 in respect of forest land measuring 8.435 Ha. in village-Manoharpur, Dhurudupal, Keri, Alanapada & Naranpur Reserve Forest under Keonjhar Sadar Tahasil and village-Dalanga & Godipokhari under Patna Tahasil for construction of 220KV Transmission line from 400/220 KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/132KV & 220/33KV Grid Sub-Station, Turumunga at Godipokhari by M/s. OPTCL, Keonjhar.

Sir,

In enclosing here with a copy of letter No.342/Dated.02.05.2023 of OPTCL, Keonjhar, the Collector, Keonjhar vide his Letter No.2058/Rev. Dated.24.08.2023 has requested this office for enquiry into the matter on settlement of rights under FRA, 2006 in respect of forest land measuring 8.435 Ha. in village-Manoharpur, Dhurudupal, Keri, Alanapada & Naranpur Reserve Forest under Keonjhar Sadar Tahasil and village-Dalanga & Godipokhari under Patna Tahasil for construction of 220KV Transmission line from 400/220 KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/132KV & 220/33KV Grid Sub-Station, Turumunga at Godipokhari of M/s. OPTCL, Keonjhar and submit findings in Format-I as it is a Linear Project.

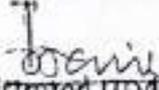
You are therefore requested to enquire into the matter on settlement of rights under FRA, 2006 in respect of forest land measuring 8.435 Ha. in village-Manoharpur, Dhurudupal, Keri, Alanapada & Naranpur Reserve Forest under Keonjhar Sadar Tahasil and village-Dalanga & Godipokhari under Patna Tahasil for construction of 220KV Transmission line from 400/220 KV PGCIL Grid Sub-Station, Keonjhar to proposed 220/132KV & 220/33KV Grid Sub-Station, Turumunga at Godipokhari of M/s. OPTCL, Keonjhar and submit your findings in Form No.(I) for Linear Project to the SDLC, Keonjhar as per latest Govt. of India, MoFE Circular dt.15.01.2014, 05.02.2013 and 05.07.2013.

Yours faithfully,


Project administrator, ITDA
Keonjhar-cum-Dist. Nodal Officer, ITDA

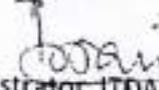
Memo No.....2789...../ITDA(K)/Dt.....16/12/2023

Copy along with copy of enclosures forwarded to the BDO, Keonjhar Sadar/Patna for information and necessary action. They are requested to co-operate with the concerned Tahasildar on the above matter.


Project administrator, ITDA,
Keonjhar-cum-Dist. Nodal Officer, FRA

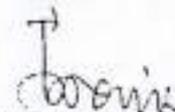
Memo No.....2790...../ITDA(K)/Dt.....16/12/2023

Copy forwarded to the Sub-Collector, Keonjhar-cum-Chairman, SDLC for information and necessary action. He is requested to take necessary proper follow up action after receipt of reports along with Form-I from Tahasildar, Keonjhar Sadar and Patna observing all formalities prescribed. The SDLC shall examine the reports and submit exhaustive reports along with Form-I to the DLC for taking further action at this end.


Project administrator, ITDA,
Keonjhar-cum-Dist. Nodal Officer, FRA

Memo No.....2791...../ITDA(K)/Dt.....16/12/2023

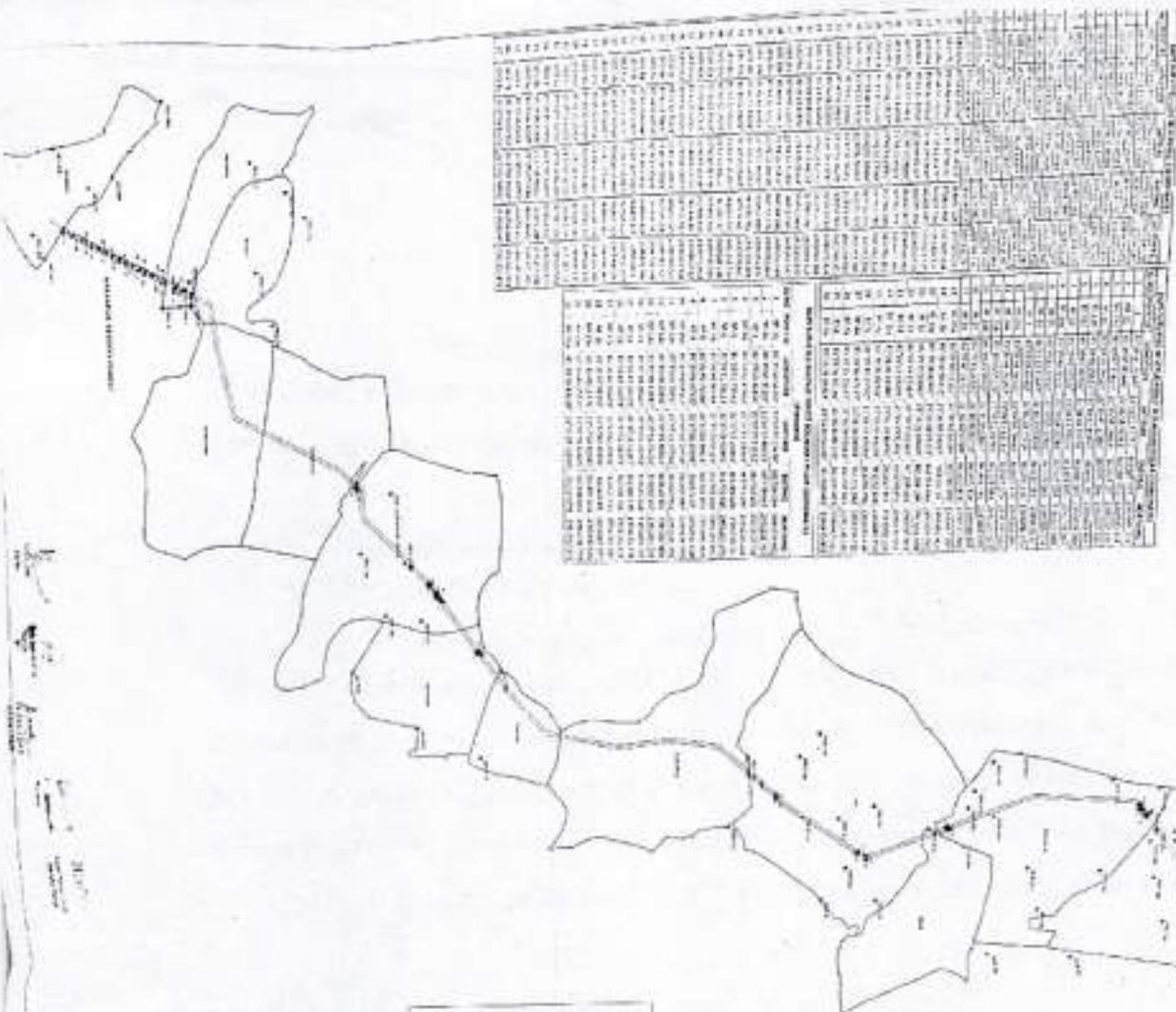
Copy submitted to the Collector, Keonjhar for favour of kind information with reference to his letter No.2058/Rev. Dated.24.08.2023.


Project administrator, ITDA,
Keonjhar-cum-Dist. Nodal Officer, FRA

INDEX MAP SHOWING FOREST AREA TO BE DIVERTED FOR CONSTRUCTION OF 230 KV D/C LINE FROM PGCL 400/200 KV GRID S/S KEONJHAR TO TURUMUNGA OF M/S OPTCL, KEONJHAR FOREST DIVISION, KEONJHAR DISTRICT



ANNEXURE - 2



GENERAL NOTES:

1. The area shown on this map is for the purpose of diversion of forest land for the construction of 230 KV D/C line from PGCL 400/200 KV grid S/S Keonjhar to Turumunga of M/S Optcl, Keonjhar Forest Division, Keonjhar District.
2. The area shown on this map is for the purpose of diversion of forest land for the construction of 230 KV D/C line from PGCL 400/200 KV grid S/S Keonjhar to Turumunga of M/S Optcl, Keonjhar Forest Division, Keonjhar District.
3. The area shown on this map is for the purpose of diversion of forest land for the construction of 230 KV D/C line from PGCL 400/200 KV grid S/S Keonjhar to Turumunga of M/S Optcl, Keonjhar Forest Division, Keonjhar District.
4. The area shown on this map is for the purpose of diversion of forest land for the construction of 230 KV D/C line from PGCL 400/200 KV grid S/S Keonjhar to Turumunga of M/S Optcl, Keonjhar Forest Division, Keonjhar District.

LEGEND:

- 1. Forest Land
- 2. Non-Forest Land
- 3. Right of Way
- 4. Road
- 5. Canal
- 6. River
- 7. Boundary
- 8. Survey Mark
- 9. Well
- 10. Pond
- 11. Building
- 12. Other

SUPERVISOR AND ASSISTANT SGT.
 Control & Management
 Centralized P.W. Unit, Keonjhar



Legend

- 1. Forest Land
- 2. Non-Forest Land
- 3. Right of Way
- 4. Road
- 5. Canal
- 6. River
- 7. Boundary
- 8. Survey Mark
- 9. Well
- 10. Pond
- 11. Building
- 12. Other

DERIVED COORDINATES OF FOREST BOUNDARY PILLARS								
SL NO	LONGITUDE	LATITUDE	EASTING	NORTHING	PILLAR ID	PILLAR TO PILLAR DISTANCE (IN M.)		PATCH NO.
1	85°43'50.982"	21°43'24.016"	368734.598	2402743.014	1	12 to 1	4.32	PATCH - 1
2	85°43'50.969"	21°43'23.798"	368734.173	2402736.300	2	1 to 2	6.72	
3	85°43'50.742"	21°43'23.776"	368727.646	2402735.695	3	2 to 3	6.55	
4	85°43'50.340"	21°43'23.712"	368716.061	2402733.814	4	3 to 4	11.73	
5	85°43'49.796"	21°43'23.618"	368700.409	2402731.045	5	4 to 5	15.93	
6	85°43'49.997"	21°43'23.815"	368706.242	2402737.056	6	5 to 6	8.36	
7	85°43'50.177"	21°43'23.909"	368711.435	2402739.911	7	6 to 7	5.92	
8	85°43'50.434"	21°43'23.965"	368718.833	2402741.562	8	7 to 8	7.58	
9	85°43'50.554"	21°43'23.986"	368722.284	2402742.193	9	8 to 9	3.45	
10	85°43'50.656"	21°43'23.918"	368725.220	2402740.061	10	9 to 10	3.62	
11	85°43'50.725"	21°43'23.909"	368727.187	2402739.782	11	10 to 11	1.98	
12	85°43'50.841"	21°43'23.973"	368730.526	2402741.730	12	11 to 12	3.86	
13	85°43'51.089"	21°43'23.463"	368737.543	2402725.975	13	12 to 13	3.51	
14	85°43'51.076"	21°43'23.439"	368737.155	2402725.250	14	13 to 14	0.836	
15	85°43'51.055"	21°43'23.407"	368736.551	2402724.278	15	14 to 15	1.13	
16	85°43'51.032"	21°43'23.377"	368735.884	2402723.347	16	15 to 16	1.14	
17	85°43'51.007"	21°43'23.348"	368735.157	2402722.461	17	16 to 17	1.54	
18	85°43'50.980"	21°43'23.321"	368734.374	2402721.626	18	17 to 18	1.16	
19	85°43'50.951"	21°43'23.295"	368733.539	2402720.843	19	18 to 19	1.14	
20	85°43'50.921"	21°43'23.271"	368732.653	2402720.116	20	19 to 20	1.15	
21	85°43'50.855"	21°43'23.229"	368730.750	2402718.845	21	20 to 21	2.29	
22	85°43'50.784"	21°43'23.196"	368728.697	2402717.832	22	21 to 22	2.28	
23	85°43'50.747"	21°43'23.182"	368727.625	2402717.429	23	22 to 23	1.17	
24	85°43'50.670"	21°43'23.163"	368725.414	2402716.836	24	23 to 24	2.28	
25	85°43'50.582"	21°43'23.152"	368722.874	2402716.522	25	24 to 25	2.57	
26	85°43'49.738"	21°43'23.106"	368698.628	2402715.310	26	25 to 26	24.26	
27	85°43'49.525"	21°43'23.094"	368692.488	2402715.003	27	26 to 27	6.1	
28	85°43'49.468"	21°43'23.235"	368690.893	2402719.347	28	27 to 28	4.58	
29	85°43'49.632"	21°43'23.495"	368695.685	2402727.316	29	28 to 29	9.3	
30	85°43'49.761"	21°43'23.165"	368699.310	2402717.118	30	29 to 30	10.82	
31	85°43'50.447"	21°43'23.340"	368719.044	2402722.357	31	30 to 31	20.33	
32	85°43'50.969"	21°43'23.477"	368734.093	2402726.448	32	31 to 32	15.54	
33	85°43'47.782"	21°43'23.345"	368642.483	2402723.116	33	32 to 33	8.53	
34	85°43'47.645"	21°43'23.228"	368638.516	2402719.566	34	33 to 34	5.24	
35	85°43'47.284"	21°43'23.164"	368628.124	2402717.677	35	34 to 35	10.56	
36	85°43'47.515"	21°43'23.461"	368634.833	2402726.762	43	35 to 43	4.53	
37	85°43'47.154"	21°43'23.564"	368624.500	2402730.000	42	43 to 42	1.6	
38	85°43'47.156"	21°43'23.526"	368624.537	2402728.855	41	42 to 41	2.19	
39	85°43'47.160"	21°43'23.489"	368624.650	2402727.716	40	41 to 40	1.02	
40	85°43'47.167"	21°43'23.453"	368624.836	2402726.586	39	40 to 39	1.1	
41	85°43'47.176"	21°43'23.417"	368625.096	2402725.471	38	39 to 38	1.15	
42	85°43'47.201"	21°43'23.349"	368625.797	2402723.385	37	38 to 37	1.14	
43	85°43'47.223"	21°43'23.301"	368626.404	2402721.898	36	37 to 36	11.025	
44	85°43'49.745"	21°43'20.607"	368698.183	2402638.479	44	45 to 44	24.67	
45	85°43'49.770"	21°43'20.549"	368698.909	2402636.696	45	44 to 45	1.96	
46	85°43'49.879"	21°43'20.306"	368701.965	2402629.196	46	45 to 46	8.1	
47	85°43'49.900"	21°43'20.255"	368702.571	2402627.625	47	46 to 47	1.86	
48	85°43'49.922"	21°43'20.184"	368703.164	2402625.414	48	47 to 48	2.34	
49	85°43'49.933"	21°43'20.110"	368703.463	2402623.145	49	48 to 49	2.28	
50	85°43'49.934"	21°43'20.073"	368703.500	2402622.000	50	49 to 50	1.16	
51	85°43'49.933"	21°43'20.036"	368703.463	2402620.855	51	50 to 51	1.12	
52	85°43'49.930"	21°43'19.999"	368703.350	2402619.716	52	51 to 52	1.18	
53	85°43'49.924"	21°43'19.962"	368703.164	2402618.586	53	52 to 53	1.16	
54	85°43'49.916"	21°43'19.930"	368702.943	2402617.618	54	53 to 54	1.03	
55	85°43'49.654"	21°43'18.948"	368695.149	2402597.482	55	54 to 55	31.13	

Forest Range Officer
Patna Range

Divisional Forest Officer
Keonjhar Division

Deputy General Manager (Elect.)
E.H.T. (Const.) Division
DPTCL Keonjhar

Forest Range Officer
Keonjhar Range

56	85°43'49.613"	21°43'18.798"	368693.960	2402582.885	56	55 to 56	4.74
57	85°43'49.609"	21°43'18.783"	368693.841	2402582.425	57	56 to 57	0.53
58	85°43'49.570"	21°43'18.635"	368692.666	2402577.883	58	57 to 58	4.68
59	85°43'49.418"	21°43'18.069"	368688.171	2402560.501	59	58 to 59	17.98
60	85°43'49.244"	21°43'18.160"	368683.181	2402563.355	60	59 to 60	5.64
61	85°43'49.082"	21°43'18.259"	368678.556	2402566.409	61	61 to 62	5.54
62	85°43'49.230"	21°43'18.825"	368682.955	2402583.799	62	62 to 63	17.94
63	85°43'49.302"	21°43'19.062"	368685.082	2402591.052	63	63 to 64	7.64
64	85°43'49.425"	21°43'19.601"	368688.738	2402607.601	64	64 to 65	16.95
65	85°43'49.486"	21°43'19.853"	368690.574	2402615.331	65	65 to 66	7.97
66	85°43'46.991"	21°43'15.506"	368617.779	2402482.255	66	72 to 66	20.15
67	85°43'46.847"	21°43'15.115"	368613.545	2402470.277	67	67 to 68	12.74
68	85°43'46.518"	21°43'15.192"	368604.113	2402472.726	68	68 to 69	9.71
69	85°43'46.184"	21°43'15.316"	368594.545	2402476.598	69	69 to 70	10.13
70	85°43'45.885"	21°43'15.487"	368585.991	2402481.951	70	70 to 71	10.06
71	85°43'46.185"	21°43'15.670"	368594.653	2402487.498	71	71 to 72	10.28
72	85°43'46.353"	21°43'15.772"	368599.502	2402490.603	72	72 to 73	5.72
73	85°43'38.222"	21°43'10.073"	368364.455	2402317.255	73	78 to 73	6.92
74	85°43'38.413"	21°43'09.944"	368369.887	2402313.258	74	73 to 74	6.73
75	85°43'38.120"	21°43'09.338"	368361.316	2402294.678	75	74 to 75	20.49
76	85°43'38.044"	21°43'09.148"	368359.080	2402288.851	76	75 to 76	6.22
77	85°43'37.878"	21°43'09.461"	368354.406	2402298.528	77	76 to 77	10.48
78	85°43'38.068"	21°43'09.898"	368359.980	2402311.917	78	77 to 78	14.51
79	85°43'34.337"	21°43'07.818"	368252.231	2402248.832	79	85 to 79	53.16
80	85°43'34.306"	21°43'06.984"	368251.141	2402223.194	80	79 to 80	23.35
81	85°43'34.198"	21°43'06.974"	368248.037	2402222.903	81	80 to 81	3.47
82	85°43'34.085"	21°43'06.907"	368244.771	2402220.875	82	81 to 82	4.11
83	85°43'33.772"	21°43'06.652"	368235.698	2402213.126	83	82 to 83	12.03
84	85°43'33.766"	21°43'06.773"	368235.581	2402216.842	84	83 to 84	3.72
85	85°43'32.880"	21°43'06.740"	368210.093	2402216.036	85	84 to 85	25.26
86	85°43'33.751"	21°43'06.439"	368235.053	2402206.572	86	99 to 86	18.47
87	85°43'33.422"	21°43'06.444"	368225.603	2402206.808	87	86 to 87	9.39
88	85°43'32.790"	21°43'06.408"	368207.429	2402205.851	88	87 to 88	18.15
89	85°43'32.392"	21°43'06.379"	368195.980	2402205.052	89	88 to 89	11.5
90	85°43'32.229"	21°43'06.259"	368191.286	2402201.399	90	89 to 90	5.94
91	85°43'32.158"	21°43'06.206"	368189.222	2402199.792	91	90 to 91	2.69
92	85°43'31.696"	21°43'05.865"	368175.872	2402189.402	92	91 to 92	17.05
93	85°43'32.054"	21°43'05.776"	368186.110	2402186.572	93	92 to 93	10.62
94	85°43'32.239"	21°43'05.431"	368191.340	2402175.939	94	93 to 94	11.96
95	85°43'32.957"	21°43'05.679"	368212.035	2402183.388	95	94 to 95	21.49
96	85°43'32.970"	21°43'05.683"	368212.414	2402183.524	96	95 to 96	0.42
97	85°43'33.549"	21°43'05.784"	368229.083	2402186.464	97	96 to 97	16.94
98	85°43'33.604"	21°43'05.824"	368230.661	2402187.693	98	97 to 98	1.96
99	85°43'33.631"	21°43'05.845"	368231.467	2402188.320	99	98 to 99	0.93
100	85°43'13.383"	21°42'50.867"	367645.847	2401732.560	100	115 to 100	37.39
101	85°43'12.645"	21°42'51.441"	367624.769	2401750.361	101	100 to 101	27.34
102	85°43'12.494"	21°42'51.661"	367620.497	2401757.182	102	101 to 102	8.05
103	85°43'12.425"	21°42'51.611"	367618.516	2401755.641	103	102 to 103	2.51
104	85°43'11.757"	21°42'51.116"	367599.173	2401740.588	104	103 to 104	24.5
105	85°43'11.621"	21°42'51.016"	367595.253	2401737.537	105	104 to 105	5.1
106	85°43'10.214"	21°42'49.975"	367554.560	2401705.869	106	105 to 106	51.62
107	85°43'08.883"	21°42'48.991"	367516.073	2401675.919	107	106 to 107	49.12
108	85°43'08.090"	21°42'48.404"	367493.133	2401658.068	108	107 to 108	29.44
109	85°43'08.925"	21°42'48.419"	367517.128	2401658.329	109	108 to 109	24.09
110	85°43'09.816"	21°42'48.389"	367542.719	2401657.196	110	109 to 110	25.99
111	85°43'10.020"	21°42'48.380"	367548.585	2401656.871	111	110 to 111	6.02
112	85°43'10.353"	21°42'48.626"	367558.199	2401664.353	112	111 to 112	11.99
113	85°43'10.934"	21°42'49.056"	367575.011	2401677.436	113	112 to 113	21.02

PATCH - 5

PATCH - 6

PATCH - 7

PATCH - 8

PATCH - 9

COUNTERSIGNED

Divisional Forest Officer
Keonjhar Division

[Signature]
Deputy General Manager (Elect.)
EHT (Const) Division
Keonjhar

[Signature]
Forest Range Officer
Keonjhar Range
Patna Range

114	85°43'12.128"	21°42'49.939"	367609.531	2401704.299	114	113 to 114	43.3	PATCH - 10
115	85°43'12.359"	21°42'50.109"	367616.213	2401709.499	115	114 to 115	8.3	
116	85°43'15.683"	21°41'40.776"	367694.144	2399576.647	116	127 to 116	23.59	
117	85°43'15.837"	21°41'40.873"	367698.600	2399579.614	117	116 to 117	5.36	
118	85°43'15.955"	21°41'40.812"	367701.958	2399577.719	118	117 to 118	4.24	
119	85°43'16.036"	21°41'40.588"	367704.237	2399570.805	119	118 to 119	7.62	
120	85°43'15.986"	21°41'40.251"	367702.726	2399560.455	120	119 to 120	10.42	
121	85°43'15.894"	21°41'39.969"	367699.995	2399551.784	121	120 to 121	9.09	
122	85°43'15.895"	21°41'39.941"	367700.006	2399550.946	122	121 to 122	0.8	
123	85°43'15.899"	21°41'39.742"	367700.086	2399544.829	123	122 to 123	6.22	
124	85°43'15.547"	21°41'39.414"	367689.884	2399534.797	124	123 to 124	14.3	
125	85°43'15.288"	21°41'39.106"	367682.349	2399525.404	125	124 to 125	12.05	
126	85°43'14.978"	21°41'39.960"	367673.665	2399551.751	126	125 to 126	27.6	
127	85°43'15.552"	21°41'40.017"	367690.185	2399553.367	127	126 to 127	16.6	
128	85°43'25.347"	21°41'11.354"	367964.407	2398669.642	128	142 to 128	10.63	
129	85°43'26.320"	21°41'11.045"	367992.294	2398659.895	129	128 to 129	29.72	
130	85°43'26.743"	21°41'10.904"	368004.425	2398655.472	130	129 to 130	13.01	
131	85°43'26.741"	21°41'10.882"	368004.357	2398654.787	131	130 to 131	0.7	
132	85°43'26.734"	21°41'10.843"	368004.164	2398653.586	132	131 to 132	1.22	
133	85°43'26.726"	21°41'10.807"	368003.904	2398652.471	133	132 to 133	1.15	
134	85°43'26.714"	21°41'10.771"	368003.571	2398651.375	134	133 to 134	1.17	
135	85°43'26.701"	21°41'10.736"	368003.168	2398650.303	135	134 to 135	1.19	
136	85°43'26.685"	21°41'10.702"	368002.695	2398649.260	136	135 to 136	1.19	
137	85°43'26.666"	21°41'10.669"	368002.155	2398648.250	137	136 to 137	1.19	
138	85°43'26.648"	21°41'10.641"	368001.634	2398647.404	138	137 to 138	0.99	
139	85°43'24.617"	21°41'07.693"	367942.497	2398557.212	139	138 to 139	107.89	
140	85°43'24.043"	21°41'07.872"	367926.065	2398562.857	140	139 to 140	17.1	
141	85°43'23.369"	21°41'07.984"	367906.706	2398566.458	141	140 to 141	19.69	
142	85°43'25.465"	21°41'11.027"	367967.738	2398659.538	142	141 to 142	111.32	
143	85°43'01.286"	21°40'37.578"	367264.313	2397636.712	143	147 to 143	400.67	
144	85°43'02.246"	21°40'37.626"	367291.909	2397637.959	144	143 to 144	27.7	
145	85°43'03.021"	21°40'37.715"	367314.195	2397640.506	145	144 to 145	22.83	
146	85°42'53.774"	21°40'27.695"	367045.885	2397334.595	146	145 to 146	406.98	
147	85°42'52.115"	21°40'27.640"	366998.180	2397333.284	147	146 to 147	47.38	
148	85°42'06.136"	21°38'50.802"	365651.688	2394366.469	148	154 to 148	43.27	
149	85°42'06.110"	21°38'50.108"	365650.778	2394345.121	149	148 to 149	22.4	
150	85°42'06.038"	21°38'49.319"	365648.515	2394320.904	150	149 to 150	25.34	
151	85°42'05.949"	21°38'49.258"	365645.923	2394319.021	151	150 to 151	3.14	
152	85°42'04.995"	21°38'48.598"	365618.328	2394298.975	152	151 to 152	33.92	
153	85°42'04.967"	21°38'49.388"	365617.717	2394323.269	153	152 to 153	24.206	
154	85°42'04.914"	21°38'49.958"	365616.346	2394340.795	154	153 to 154	17.74	
155	85°41'46.215"	21°38'37.034"	365075.445	2393947.885	155	154 to 155	85.14	
156	85°41'46.458"	21°38'36.693"	365082.345	2393937.362	156	155 to 156	12.67	
157	85°41'46.595"	21°38'36.355"	365086.198	2393926.924	157	156 to 157	11.4	
158	85°41'45.862"	21°38'35.683"	365064.969	2393906.423	158	157 to 158	29.4	
159	85°41'45.361"	21°38'35.619"	365050.521	2393904.595	159	158 to 159	14.56	
160	85°41'44.934"	21°38'35.506"	365038.228	2393901.221	160	159 to 160	12.8	
161	85°41'44.646"	21°38'35.424"	365029.932	2393898.761	161	160 to 161	8.65	
162	85°41'44.679"	21°38'35.101"	365030.808	2393888.837	162	161 to 162	9.96	
163	85°41'44.732"	21°38'34.594"	365032.187	2393873.206	163	162 to 163	15.69	
164	85°41'44.304"	21°38'34.298"	365019.805	2393864.212	164	163 to 164	15.31	
165	85°41'44.348"	21°38'34.925"	365021.233	2393883.503	165	164 to 165	19.19	
166	85°41'44.327"	21°38'35.013"	365020.665	2393886.194	166	165 to 166	2.75	
167	85°41'44.014"	21°38'35.126"	365011.681	2393889.747	167	166 to 167	9.57	
168	85°41'43.885"	21°38'34.704"	365007.878	2393876.818	168	167 to 168	13.93	
169	85°41'43.824"	21°38'34.298"	365006.000	2393864.347	169	168 to 169	3.68	
170	85°41'43.836"	21°38'33.974"	365006.266	2393854.378	170	169 to 170	10.003	
171	85°41'43.732"	21°38'33.902"	365003.263	2393852.197	171	170 to 171	3.7	PATCH - 14

[Signature]
COUNTERSIGNED
 Forest Range Officer
 Patna Range
 Divisional Forest Officer
 Keonjhar Division

[Signature]
 Deputy General Manager (Elect.)
 E.H.T. (Const.) Division
 OPICL, Keonjhar
Forest Range Officer
 Keonjhar Range

172	85°41'40.653"	21°38'31.774"	364914.185	2393787.495	172	171 to 172	110.04
173	85°41'40.251"	21°38'31.415"	364902.552	2393776.544	173	172 to 173	15.9
175	85°41'40.068"	21°38'31.879"	364897.387	2393790.867	175	173 to 174	13.68
174	85°41'40.205"	21°38'31.858"	364901.321	2393790.176	174	174 to 175	3.995
176	85°41'39.528"	21°38'31.866"	364881.868	2393790.603	176	175 to 176	15.52
177	85°41'39.322"	21°38'32.159"	364876.034	2393799.649	177	176 to 177	10.66
178	85°41'39.839"	21°38'32.621"	364891.005	2393813.742	178	177 to 178	20.55
179	85°41'39.855"	21°38'32.635"	364891.461	2393814.157	179	178 to 179	0.48
180	85°41'39.885"	21°38'32.659"	364892.347	2393814.884	180	179 to 180	1.14
181	85°41'39.898"	21°38'32.668"	364892.715	2393815.159	181	180 to 181	0.47
182	85°41'42.696"	21°38'34.602"	364973.653	2393873.948	182	181 to 182	100.05
183	85°41'43.121"	21°38'34.586"	364985.880	2393873.368	183	182 to 183	12.33
184	85°41'43.521"	21°38'34.745"	364997.398	2393878.171	184	183 to 184	10.67
185	85°41'43.823"	21°38'35.381"	365006.270	2393897.639	185	184 to 185	21.51
186	85°41'33.174"	21°38'25.081"	364697.450	2393583.471	186	188 to 186	18.9
187	85°41'33.092"	21°38'25.382"	364695.150	2393592.765	187	186 to 187	9.57
188	85°41'33.653"	21°38'25.509"	364711.310	2393596.518	188	187 to 188	16.59
189	85°41'05.305"	21°38'06.615"	363891.415	2393022.399	189	199 to 189	52.72
190	85°41'04.790"	21°38'06.681"	363876.624	2393024.553	190	189 to 190	14.81
191	85°41'03.908"	21°38'06.809"	363851.291	2393028.719	191	190 to 191	25.77
192	85°41'03.904"	21°38'06.694"	363851.138	2393025.163	192	191 to 192	3.55
193	85°41'03.711"	21°38'06.715"	363845.602	2393025.869	193	192 to 193	5.58
194	85°41'03.629"	21°38'06.732"	363843.262	2393026.424	194	193 to 194	2.42
195	85°41'03.100"	21°38'06.285"	363827.915	2393012.782	195	194 to 195	20.52
196	85°41'03.321"	21°38'06.175"	363834.256	2393009.369	196	195 to 196	7.36
197	85°41'03.398"	21°38'05.996"	363836.425	2393003.818	197	196 to 197	5.9
198	85°41'03.921"	21°38'05.888"	363851.420	2393000.399	198	197 to 198	14.8
199	85°41'03.950"	21°38'05.469"	363852.149	2392987.496	199	198 to 199	12.96
200	85°39'50.54203"	21°37'07.53434"	361726.294	2391223.962	NP-1a	NP-21a to NP-1a	7.156
201	85°39'50.95127"	21°37'07.46593"	361738.043	2391221.757	NP-2a	NP-1a to NP-2a	12.01
202	85°39'51.48824"	21°37'07.53532"	361753.502	2391223.758	NP-3	NP-2a to NP-3	15.65
203	85°39'51.47993"	21°37'07.28964"	361753.198	2391216.206	NP-4a	NP-3 to NP-4a	7.37
204	85°39'51.73541"	21°37'07.23006"	361760.528	2391214.31	NP-5	NP-4a to NP-5	7.481
205	85°39'51.58123"	21°37'06.92843"	361756.015	2391205.073	NP-6	NP-5 to NP-6	9.559
206	85°39'49.85184"	21°37'03.54123"	361705.393	2391101.341	NP-7b	NP-6 to NP-7b	115.436
207	85°39'49.75148"	21°37'03.34426"	361702.455	2391095.309	NP-8	NP-7b to NP-8	6.71
208	85°39'48.67930"	21°37'01.24495"	361671.07	2391031.018	NP-9	NP-8 to NP-9	71.64
209	85°39'48.54167"	21°37'01.14760"	361667.087	2391028.059	NP-10a	NP-9 to NP-10a	4.41
210	85°39'48.50331"	21°37'01.17764"	361665.992	2391028.992	NP-11b	NP-10a to NP-11a	1.43
211	85°39'48.23340"	21°37'01.46462"	361658.307	2391037.884	NP-12a	NP-11a to NP-12a	11.754
212	85°39'48.43483"	21°37'01.72152"	361664.167	2391045.734	NP-13a	NP-12a to NP-13a	9.662
213	85°39'48.48601"	21°37'01.83294"	361665.668	2391049.147	NP-14	NP-13a to NP-14	3.729
214	85°39'48.30196"	21°37'01.92287"	361660.399	2391051.958	NP-15	NP-14 to NP-15	5.97
215	85°39'48.16058"	21°37'02.04272"	361656.366	2391055.679	NP-16	NP-15 to NP-16	5.488
216	85°39'47.95491"	21°37'02.27403"	361650.513	2391062.842	NP-17a	NP-16 to NP-17a	9.361
217	85°39'47.93155"	21°37'02.42116"	361649.88	2391067.373	NP-18	NP-17a to NP-18	5.008
218	85°39'49.15372"	21°37'04.81543"	361685.656	2391140.696	NP-19a	NP-18 to NP-19a	81.598
219	85°39'49.25515"	21°37'05.01405"	361688.625	2391146.779	NP-20a	NP-19a to NP-20a	6.82
220	85°39'50.43219"	21°37'07.31918"	361723.079	2391217.373	NP-21a	NP-20a to NP-21a	78.452
221	85°39'45.85946"	21°36'58.36381"	361589.225	2390943.118	NP-22	RF-15 to NP-22	38.36
222	85°39'47.11467"	21°36'58.18063"	361625.27	2390937.175	NP-23a	NP-22 to NP-23	36.5
223	85°39'46.36325"	21°36'56.70863"	361603.274	2390892.095	RF-23a	NP-23 to RF-23a	50.12
224	85°39'44.79200"	21°36'53.63131"	361557.279	2390797.854	RF-24a	RF-23a to RF-24a	104.36
225	85°39'43.65138"	21°36'51.39701"	361523.889	2390729.429	RF-25b	RF-24a to RF-25b	76.26
226	85°39'42.55329"	21°36'49.24697"	361491.745	2390663.585	RF-26b	RF-25b to RF-26b	73.92
227	85°39'41.30895"	21°36'46.81035"	361455.319	2390588.965	RF-27	RF-26b to RF-27	83.24
228	85°39'40.18727"	21°36'44.59388"	361422.478	2390521.085	RF-28	RF-27 to RF-28	75.41
229	85°39'39.11161"	21°36'42.50184"	361390.993	2390457.019	RF-29a	RF-28 to RF-29a	71.23

PATCH - 15

PATCH - 15

PATCH - 16

COUNTERSIGNED

Divisional Forest Officer
Keonjhar Division

Deputy General Manager(Elect.)
E.H.T.(Const.) Division
OPTCL,Keonj

Forest Range Officer
Keonjhar Range
Patna Range

230	85°39'37.99122"	21°36'40.29397"	361358.19	2390389.403	RF-30	RF-29a to RF-30	75.72
231	85°39'36.82442"	21°36'38.05153"	361324.044	2390320.735	RF-31a	RF-30 to RF-31a	76.83
232	85°39'35.59997"	21°36'35.60640"	361288.186	2390245.848	RF-32	RF-31a to RF-32	83.36
233	85°39'34.23324"	21°36'33.03340"	361248.203	2390167.065	RF-33	RF-32 to RF-33	88.16
234	85°39'32.69269"	21°36'29.91492"	361203.076	2390071.551	RF-34	RF-33 to RF-34	105.69
235	85°39'31.13386"	21°36'26.86431"	361157.441	2389978.129	RF-35a	RF-34 to RF-35a	103.96
236	85°39'29.41647"	21°36'23.50068"	361107.163	2389875.12	RF-1a	RF-35a to RF-1a	114.63
237	85°39'28.40362"	21°36'24.17714"	361078.216	2389896.173	RF-2	RF-1a to RF-2	35.23
238	85°39'30.07380"	21°36'27.42791"	361127.107	2389995.723	2	RF-2 to 2	110.65
239	85°39'31.62932"	21°36'30.48219"	361172.648	2390089.259	RF-4a	2 to RF-4a	103.21
240	85°39'33.13742"	21°36'33.42694"	361216.796	2390179.438	RF-5	RF-4a to RF-5	100.42
241	85°39'34.47633"	21°36'36.04958"	361255.992	2390259.755	RF-6a	RF-5 to RF-6a	84.89
242	85°39'35.75637"	21°36'38.55663"	361293.465	2390336.532	RF-7a	RF-6a to RF-7a	77.9
243	85°39'36.93166"	21°36'40.86130"	361327.872	2390407.111	RF-8	RF-7a to RF-8	78.96
244	85°39'38.04424"	21°36'43.04240"	361360.443	2390473.906	RF-9a	RF-8 to RF-9a	74.34
245	85°39'39.09429"	21°36'45.11380"	361391.186	2390537.343	RF-10	RF-9a to RF-10	70.65
246	85°39'40.29653"	21°36'47.46855"	361426.38	2390609.456	RF-11b	RF-10 to RF-11b	80.35
247	85°39'41.46216"	21°36'49.75078"	361460.502	2390679.348	RF-12a	RF-11b to RF-12a	77.78
248	85°39'42.57521"	21°36'51.93103"	361493.085	2390746.117	RF-13	RF-12a to RF-13	73.67
249	85°39'43.73505"	21°36'54.20280"	361527.038	2390815.689	RF-14b	RF-13a to RF-14b	77.42
250	85°39'45.27727"	21°36'57.22341"	361572.183	2390908.194	RF-15	RF-14b to RF-15	102.86

PATCH - RF



Forest Range Officer
Patna Range

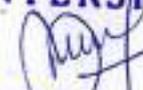


Deputy General Manager (Elect)
E.H.T. (const.) Division
OPTCL, Keonjhar



Forest Range Officer
Keonjhar Range

COUNTERSIGNED



Divisional Forest Officer
Keonjhar Division

INDEX MAP SHOWING FOREST AREA TO BE DIVERTED FOR CONSTRUCTION OF 220 KV D/C LINE FROM PGCIL 400/200 KV GRID S/S KEONJHAR TO TURUMUNGA TO TURUMUNGA OF M/S OPTCL, KEONJHAR COMING UNDER KEONJHAR FOREST DIVISION, KEONJHAR DISTRICT



SL NO	POINT ID	LONGITUDE	LATITUDE	EASTING	NORTHING
1	Geo-64a	85°39'44.993311	21°36'59.227511	359822.011	2309884.974
2	Geo-64b	85°39'45.006679	21°36'59.227511	360272.408	2309434.197
3	Geo-64c	85°39'45.020047	21°36'59.227511	361662.802	2308984.421
4	Geo-64d	85°39'45.033425	21°36'59.227511	363053.196	2308534.645
5	Geo-64e	85°39'45.046803	21°36'59.227511	364443.590	2308084.869
6	Geo-64f	85°39'45.060181	21°36'59.227511	365833.984	2307634.693
7	Geo-64g	85°39'45.073559	21°36'59.227511	367224.378	2307184.917
8	Geo-64h	85°39'45.086937	21°36'59.227511	368614.772	2306734.741
9	Geo-64i	85°39'45.100315	21°36'59.227511	370005.166	2306284.565
10	Geo-64j	85°39'45.113693	21°36'59.227511	371395.560	2305834.389
11	Geo-64k	85°39'45.127071	21°36'59.227511	372785.954	2305384.213
12	Geo-64l	85°39'45.140449	21°36'59.227511	374176.348	2304934.037
13	Geo-64m	85°39'45.153827	21°36'59.227511	375566.742	2304484.861
14	Geo-64n	85°39'45.167205	21°36'59.227511	376957.136	2304034.685
15	Geo-64o	85°39'45.180583	21°36'59.227511	378347.530	2303584.509
16	Geo-64p	85°39'45.193961	21°36'59.227511	379737.924	2303134.333
17	Geo-64q	85°39'45.207339	21°36'59.227511	381128.318	2302684.157
18	Geo-64r	85°39'45.220717	21°36'59.227511	382518.712	2302234.981
19	Geo-64s	85°39'45.234095	21°36'59.227511	383909.106	2301784.805
20	Geo-64t	85°39'45.247473	21°36'59.227511	385299.500	2301334.629
21	Geo-64u	85°39'45.260851	21°36'59.227511	386689.894	2300884.453
22	Geo-64v	85°39'45.274229	21°36'59.227511	388080.288	2300434.277
23	Geo-64w	85°39'45.287607	21°36'59.227511	389470.682	2299984.101
24	Geo-64x	85°39'45.300985	21°36'59.227511	390861.076	2299534.925
25	Geo-64y	85°39'45.314363	21°36'59.227511	392251.470	2299084.749
26	Geo-64z	85°39'45.327741	21°36'59.227511	393641.864	2298634.573
27	Geo-64aa	85°39'45.341119	21°36'59.227511	395032.258	2298184.397
28	Geo-64ab	85°39'45.354497	21°36'59.227511	396422.652	2297734.221
29	Geo-64ac	85°39'45.367875	21°36'59.227511	397813.046	2297284.045
30	Geo-64ad	85°39'45.381253	21°36'59.227511	399203.440	2296834.869
31	Geo-64ae	85°39'45.394631	21°36'59.227511	400593.834	2296384.693
32	Geo-64af	85°39'45.408009	21°36'59.227511	401984.228	2295934.517
33	Geo-64ag	85°39'45.421387	21°36'59.227511	403374.622	2295484.341
34	Geo-64ah	85°39'45.434765	21°36'59.227511	404765.016	2295034.165
35	Geo-64ai	85°39'45.448143	21°36'59.227511	406155.410	2294584.989
36	Geo-64aj	85°39'45.461521	21°36'59.227511	407545.804	2294134.813
37	Geo-64ak	85°39'45.474899	21°36'59.227511	408936.198	2293684.637
38	Geo-64al	85°39'45.488277	21°36'59.227511	410326.592	2293234.461
39	Geo-64am	85°39'45.501655	21°36'59.227511	411716.986	2292784.285
40	Geo-64an	85°39'45.515033	21°36'59.227511	413107.380	2292334.109
41	Geo-64ao	85°39'45.528411	21°36'59.227511	414497.774	2291884.933
42	Geo-64ap	85°39'45.541789	21°36'59.227511	415888.168	2291434.757
43	Geo-64aq	85°39'45.555167	21°36'59.227511	417278.562	2290984.581
44	Geo-64ar	85°39'45.568545	21°36'59.227511	418668.956	2290534.405
45	Geo-64as	85°39'45.581923	21°36'59.227511	420059.350	2290084.229
46	Geo-64at	85°39'45.595301	21°36'59.227511	421449.744	2289634.053
47	Geo-64au	85°39'45.608679	21°36'59.227511	422840.138	2289184.877
48	Geo-64av	85°39'45.622057	21°36'59.227511	424230.532	2288734.701
49	Geo-64aw	85°39'45.635435	21°36'59.227511	425620.926	2288284.525
50	Geo-64ax	85°39'45.648813	21°36'59.227511	427011.320	2287834.349
51	Geo-64ay	85°39'45.662191	21°36'59.227511	428401.714	2287384.173
52	Geo-64az	85°39'45.675569	21°36'59.227511	429792.108	2286934.997
53	Geo-64ba	85°39'45.688947	21°36'59.227511	431182.502	2286484.821
54	Geo-64bb	85°39'45.702325	21°36'59.227511	432572.896	2286034.645
55	Geo-64bc	85°39'45.715703	21°36'59.227511	433963.290	2285584.469
56	Geo-64bd	85°39'45.729081	21°36'59.227511	435353.684	2285134.293
57	Geo-64be	85°39'45.742459	21°36'59.227511	436744.078	2284684.117
58	Geo-64bf	85°39'45.755837	21°36'59.227511	438134.472	2284234.941
59	Geo-64bg	85°39'45.769215	21°36'59.227511	439524.866	2283784.765
60	Geo-64bh	85°39'45.782593	21°36'59.227511	440915.260	2283334.589
61	Geo-64bi	85°39'45.795971	21°36'59.227511	442305.654	2282884.413
62	Geo-64bj	85°39'45.809349	21°36'59.227511	443696.048	2282434.237
63	Geo-64bk	85°39'45.822727	21°36'59.227511	445086.442	2281984.061
64	Geo-64bl	85°39'45.836105	21°36'59.227511	446476.836	2281534.885
65	Geo-64bm	85°39'45.849483	21°36'59.227511	447867.230	2281084.709
66	Geo-64bn	85°39'45.862861	21°36'59.227511	449257.624	2280634.533
67	Geo-64bo	85°39'45.876239	21°36'59.227511	450648.018	2280184.357
68	Geo-64bp	85°39'45.889617	21°36'59.227511	452038.412	2279734.181
69	Geo-64bq	85°39'45.902995	21°36'59.227511	453428.806	2279284.005
70	Geo-64br	85°39'45.916373	21°36'59.227511	454819.200	2278834.829
71	Geo-64bs	85°39'45.929751	21°36'59.227511	456209.594	2278384.653
72	Geo-64bt	85°39'45.943129	21°36'59.227511	457600.988	2277934.477
73	Geo-64bu	85°39'45.956507	21°36'59.227511	458991.382	2277484.301
74	Geo-64bv	85°39'45.969885	21°36'59.227511	460381.776	2277034.125
75	Geo-64bw	85°39'45.983263	21°36'59.227511	461772.170	2276584.949
76	Geo-64bx	85°39'45.996641	21°36'59.227511	463162.564	2276134.773
77	Geo-64by	85°39'46.008019	21°36'59.227511	464552.958	2275684.597
78	Geo-64bz	85°39'46.021397	21°36'59.227511	465943.352	2275234.421
79	Geo-64ca	85°39'46.034775	21°36'59.227511	467333.746	2274784.245
80	Geo-64cb	85°39'46.048153	21°36'59.227511	468724.140	2274334.069
81	Geo-64cc	85°39'46.061531	21°36'59.227511	470114.534	2273884.893
82	Geo-64cd	85°39'46.074909	21°36'59.227511	471504.928	2273434.717
83	Geo-64ce	85°39'46.088287	21°36'59.227511	472895.322	2272984.541
84	Geo-64cf	85°39'46.101665	21°36'59.227511	474285.716	2272534.365
85	Geo-64cg	85°39'46.115043	21°36'59.227511	475676.110	2272084.189
86	Geo-64ch	85°39'46.128421	21°36'59.227511	477066.504	2271634.013
87	Geo-64ci	85°39'46.141799	21°36'59.227511	478456.898	2271184.837
88	Geo-64cj	85°39'46.155177	21°36'59.227511	479847.292	2270734.661
89	Geo-64ck	85°39'46.168555	21°36'59.227511	481237.686	2270284.485
90	Geo-64cl	85°39'46.181933	21°36'59.227511	482628.080	2269834.309
91	Geo-64cm	85°39'46.195311	21°36'59.227511	484018.474	2269384.133
92	Geo-64cn	85°39'46.208689	21°36'59.227511	485408.868	2268934.957
93	Geo-64co	85°39'46.222067	21°36'59.227511	486799.262	2268484.781
94	Geo-64cp	85°39'46.235445	21°36'59.227511	488189.656	2268034.605
95	Geo-64cq	85°39'46.248823	21°36'59.227511	489580.050	2267584.429
96	Geo-64cr	85°39'46.262201	21°36'59.227511	490970.444	2267134.253
97	Geo-64cs	85°39'46.275579	21°36'59.227511	492360.838	2266684.077
98	Geo-64ct	85°39'46.288957	21°36'59.227511	493751.232	2266234.901
99	Geo-64cu	85°39'46.302335	21°36'59.227511	495141.626	2265784.725
100	Geo-64cv	85°39'46.315713	21°36'59.227511	496532.020	2265334.549

SL NO	POINT ID	LONGITUDE	LATITUDE	EASTING	NORTHING
1	NP-21	85°39'50.542029	21°37'07.534334	361726.294	2391223.962
2	NP-22	85°39'50.565407	21°37'07.534334	363116.688	2390773.786
3	NP-23	85°39'50.588785	21°37'07.534334	364507.082	2390323.610
4	NP-24	85°39'50.612163	21°37'07.534334	365897.476	2389873.434
5	NP-25	85°39'50.635541	21°37'07.534334	367287.870	2389423.258
6	NP-26	85°39'50.658919	21°37'07.534334	368678.264	2388973.082
7	NP-27	85°39'50.682297	21°37'07.534334	370068.658	2388523.906
8	NP-28	85°39'50.705675	21°37'07.534334	371459.052	2388073.730
9	NP-29	85°39'50.729053	21°37'07.534334	372849.446	2387623.554
10	NP-30	85°39'50.752431	21°37'07.534334	374239.840	2387173.378
11	NP-31	85°39'50.775809	21°37'07.534334	375630.234	2386723.202
12	NP-32	85°39'50.799187	21°37'07.534334	377020.628	2386273.026
13	NP-33	85°39'50.822565	21°37'07.534334	378411.022	2385823.850
14	NP-34	85°39'50.845943	21°37'07.534334	379801.416	2385373.674
15	NP-35	85°39'50.869321	21°37'07.534334	381191.810	2384923.498
16	NP-36	85°39'50.892699	21°37'07.534334	382582.204	2384473.322
17	NP-37	85°39'50.916077	21°37'07.534334	383972.598	2384023.146
18	NP-38	85°39'50.939455	21°37'07.534334	385362.992	2383573.970
19	NP-39	85°39'50.962833	21°37'07.534334	386753.386	2383123.794
20	NP-40	85°39'50.986211	21°37'07.534334	388143.780	2382673.618
21	NP-41	85°39'51.009589	21°37'07.534334	389534.174	2382223.442
22	NP-42	85°39'51.032967	21°37'07.534334	390924.568	2381773.266
23	NP-43	85°39'51.056345	21°37'07.534334	392314.962	2381323.090
24	NP-44	85°39'51.079723	21°37'07.534334	393705.356	2380873.914
25	NP-45	85°39'51.103101	21°37'07.534334	395095.750	2380423.738
26	NP-46	85°39'51.126479	21°37'07.534334	396486.144	2379973.562
27	NP-47	85°39'51.149857	21°37'07.534334	397876.538	2379523.386
28	NP-48	85°39'51.173235	21°37'07.534334	399266.932	2379073.210
29	NP-49	85°39'51.196613	21°37'07.534334	400657.326	2378623.034
30</					

Pillar Posting in Line corridor of 220kV D/C Line From Keonjhar PGCIL
S/S To Turumunga S/S in Naranapur RF



RF-2



RF-1a



2



RF-35a



RF-4a



RF-34



RF-5



RF-33



RF-6a



RF-32



RF-7a



RF-31a

G. Das
Forest Range Officer
Keonjhar Range
Page 2 of 5



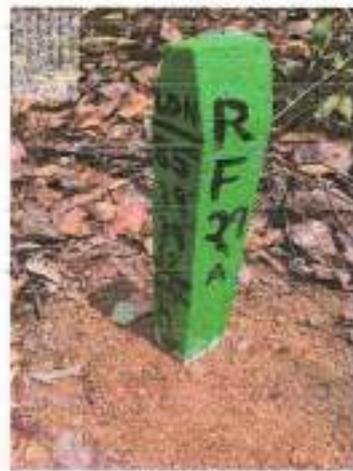
RF-8



RF-30



RF-9a



RF-29a



RF-10



RF-28

Ajit Das
Forest Range Officer
Keonjhar Range



RF-11b



RF-27



RF-12a



RF-26b



RF-13



RF-25b

A. Das
Forest Range Officer
Keonjhar Range



RF-14b



RF-24a



RF-15



RF-23a



NP-22

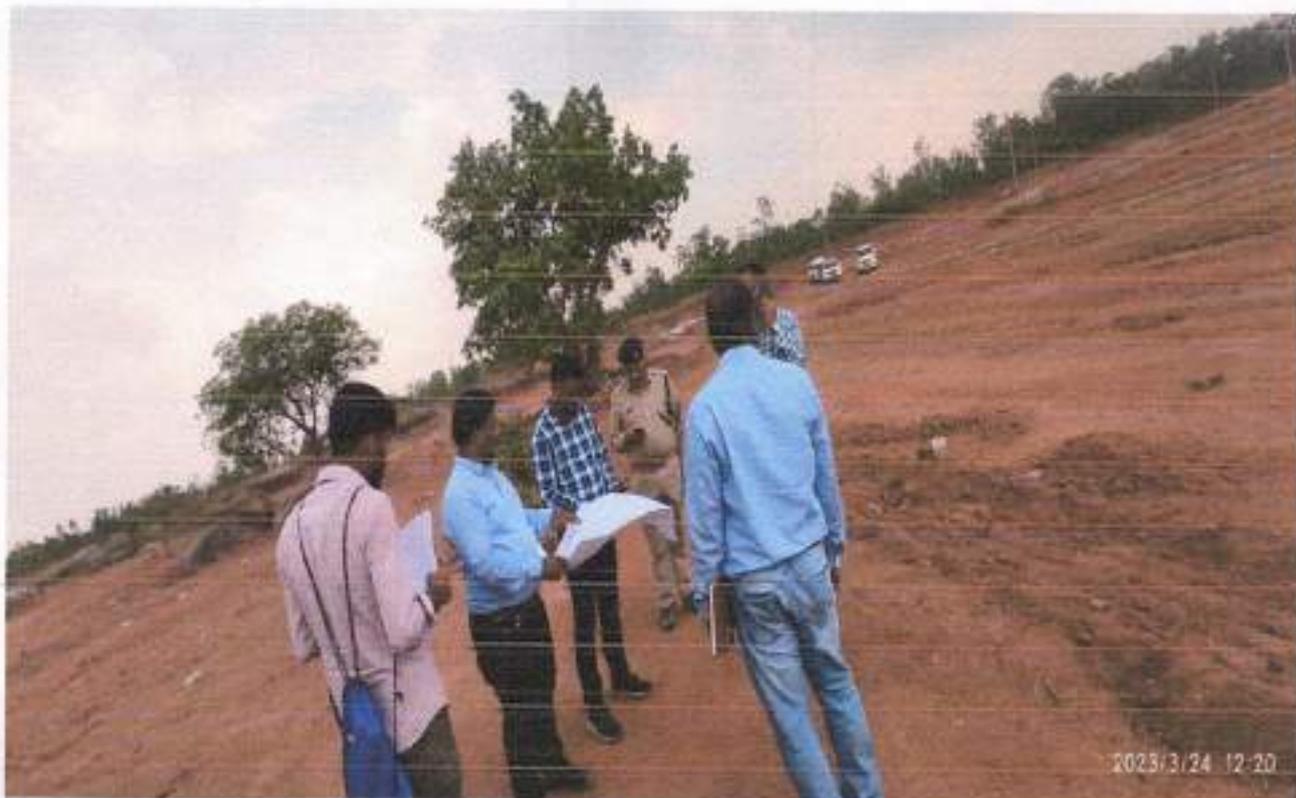


NP-23a

Ajit Das
Forest Range Officer
Keonjhar Range
Page 5 of 5

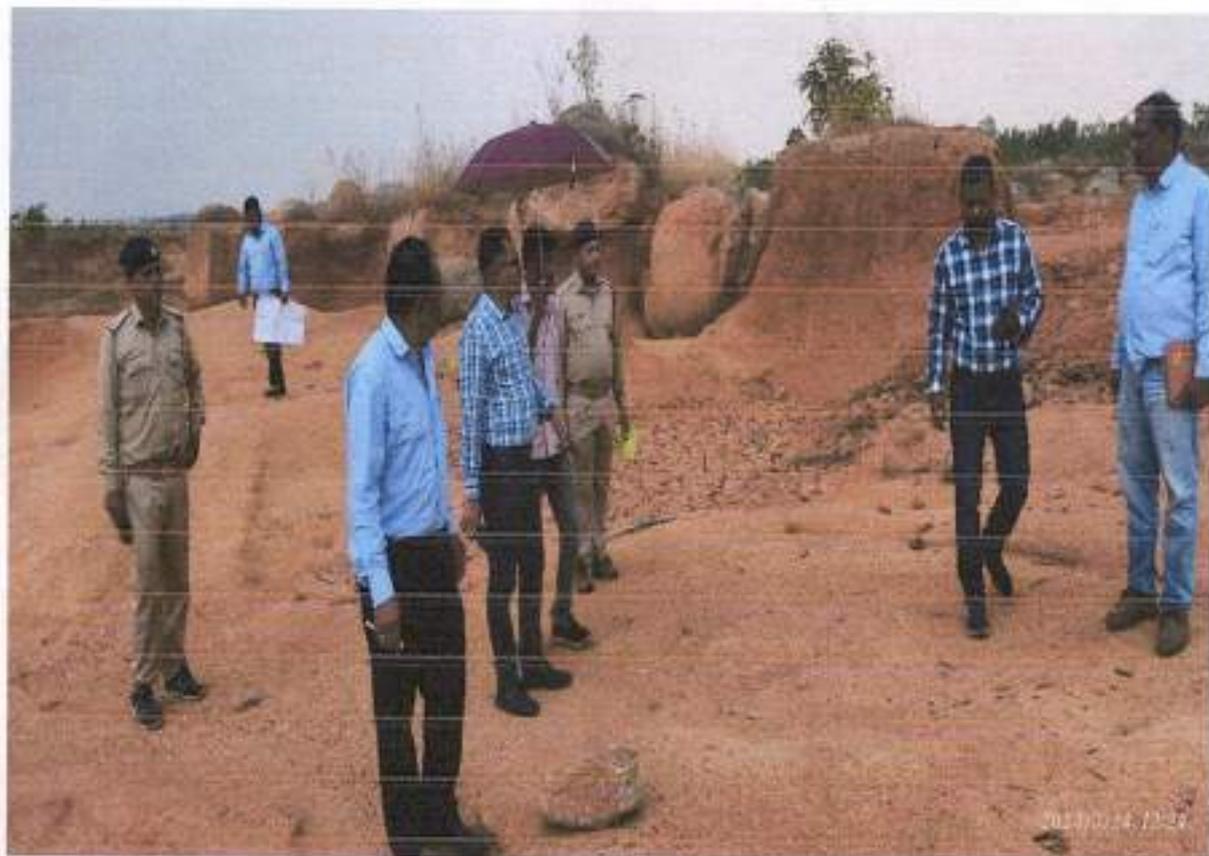














ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଡି.



OPTCL
LifeLine of Odisha

ODISHA POWER TRANSMISSION CORPORATION LIMITED

(A Government of Odisha Undertaking)

OFFICE OF THE DEPUTY GENERAL MANAGER (ELECTRICAL),
EHT (CONSTRUCTION) DIVISION, OPTCL, KEONJHAR.

At- Baladevjew colony, Lane No.-8, Jagannathpur, Dist-Keonjhar, PIN-758001.
Telephone: (06766) 254364, Email: ehtc.div.knj@optcl.co.in

UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that the legal status of forest land proposed for diversion shall remain unchanged during the life of the project.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିମିଟେଡ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that OPTCL shall pay additional payment of NPV, if so determined as per the final decision of the Hon'ble Supreme court of India.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲି.ଠ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, the leg of the base towers in the forest area shall be fenced with barbed wire at the project cost of OPTCL to avoid elephant electrocution/death of wild animals.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲି.ଃ.
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 Telephone: (06766) 254364, Email: ehtc.div.knj@optcl.co.in

Undertaking

I Sri Sanjay Kumar Pradhan, in the capacity of Deputy General Manager (EL), EHT (Construction) Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, in hilly slope areas, sufficient ground clearance has to be maintained with additional height of towers in consideration of the sag & swing of lines & height of elephants to stop untoward incidence of electrocution as per existing guidelines of MOEF&CC dated 05.05.2014 & 19.11.2024.

Deputy General Manager(Elect.)
 EHT (Const.), Division, OPTCL, Keonjhar.



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲି.ଠ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that OPTCL shall provide bird deflectors at its cost, which are to be fixed on the upper conductor of transmission line at suitable intervals to avoid bird hits.

Deputy General Manager (Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଡ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that OPTCL shall explore possibility of successful transplantation of maximum number of trees identified to be felled and further OPTCL ensure that any tree felling required in unavailable circumstances for execution of its projects, which shall be done under the supervision of Divisional Forest Officer, Keonjhar Forest Division.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



OPTCL
Lifetime of Odisha

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Telephone: (06766) 254364, Email: ehtc.div.knj@optcl.co.in

UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that OPTCL shall comply with the guidelines for laying transmission line through forest areas issued by Ministry vide letter No.7-25/2012-FC dated 05.05.2014 and 19.11.2014.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ପ୍ରଚାରଣ ନିଗମ ଲିଡ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that OPTCL shall obtain Environmental Clearance as per the provision of Environmental (Protection) Act, 1980, if applicable to this project.


 Deputy General Manager (Elect.)
 EHT (Construction) Division,
 OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲି.ଃ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, no labor camps shall be established on the forest land and OPTCL shall provide fuels preferably alternative fuels to the laborers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଡି.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, No additional path or new path will be constructed inside the forest area for any activity related to the project work.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଡ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, OPTCL shall not fell any tree or damage forest growth in the surrounding forest area in any manner while executing its project work.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲି.ଃ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, the layout plan of the proposed forest land shall not be changed without the prior approval of Ministry of Environment, Forest & Climate Change.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



OPTCL
Lifeline of Odisha

ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଡ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, the forest land shall not be used for any purpose other than that specified in the present forest diversion proposal.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିମିଟେଡ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, the forest land proposed to be diverted shall under no circumstances to transferred to any other user agency, department or person without prior approval of Ministry of Environment, Forest & Climate Change.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ପ୍ରଚାରଣ ନିଗମ ଲି.ଃ.

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Telephone: (06766) 254364, Email: ehtc.div.knj@optcl.co.in

UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, while executing its project, OPTCL shall not damage to the flora and fauna of the adjoining area.

Deputy General Manager(Elect.)

EHT (Construction) Division,

OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲି.ଠ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, OPTCL while executing its project shall consult the Divisional Forest Officer, Keonjhar Forest Division for taking necessary mitigative measures in order to avoid any adverse impact on the forest in the surrounding area of its project.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar

ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲି.ଠ.**ODISHA POWER TRANSMISSION CORPORATION LIMITED**

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Undertaking

I Sri Sanjay Kumar Pradhan, in the capacity of Deputy General Manager (EL), EHT (Construction) Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, OPTCL shall submit annual self-compliance report to the Nodal Officer of the State and IRO Bhubaneswar, MoEF&CC by the end of March every year.

Deputy General Manager(Elect.)
EHT (Const.), Division, OPTCL, Keonjhar.



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲି.ଃ.
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Undertaking

I Sri Sanjay Kumar Pradhan, in the capacity of Deputy General Manager (EL), EHT (Construction) Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, as per the condition of MoEF&CC in the interest of Afforestation, Conservation & management of Flora & Fauna in the area adjoining to its project shall be duly taken care.

Deputy General Manager (Elect.)
 EHT (Const.), Division, OPTCL, Keonjhar.



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲିଡ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, OPTCL shall comply to provisions of the all Acts, Rules, Regulations, Guidelines, NGT order (s) and Hon'ble court order (s) pertaining to this project, if any, for the time being in forced, as applicable to the project.

Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar



ଓଡିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଂଚାରଣ ନିଗମ ଲି.ଓ.

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UNDERTAKING

I Sri Sanjay Kumar Pradhan in the capacity of Deputy General Manager (Ele.), EHT (Construction), Division, Keonjhar, Odisha Power Transmission Corporation Limited (OPTCL), do hereby undertake that, OPTCL shall not commit any violation of the conditions imposed in the Stage-I order for the present proposal. Further OPTCL undertake that if any violation noticed by the Forest Authorities, the action for violation shall be taken in para 1.16 of Chapter-1 of consolidated guidelines and clarification issued under Van (Sanrakshan Evam Samvardhan) Adhinyam, 1980 and Van (Sanrakshan Evam Samvardhan) Rules, 2023 vide Ministry's letter dated 29.12.2023.


Deputy General Manager(Elect.)
EHT (Construction) Division,
OPTCL, Keonjhar