



झारखण्ड ऊर्जा संचरण निगम लिमिटेड

CIN: U40108JH2013SGC001704

पंजीकृत कार्यालय : एस.एल.डी.सी. भवन, कुसई कॉलोनी, डोरण्डा, राँची- 834002, झा.

वरीय प्रबंधक का कार्यालय, संचरण प्रमण्डल, हजारीबाग
प्रमण्डल कार्यालय : श्रृंगारी कॉम्प्लेक्स, प्रथम तल्ला, कनहरी हिल पथ, मोंट फोर्ट विद्यालय के निकट, हजारीबाग- 825301, झा.
ई-मेल : eeetdhzb@gmail.com

पत्रांक: 238 / ह0बाग

दिनांक: 09 / 03 / 2026

प्रेषक,

वरीय प्रबंधक,
संचरण प्रमण्डल, हजारीबाग।

सेवा में

वन प्रमण्डल पदाधिकारी,
चतरा दक्षिणी वन प्रमण्डल, चतरा।

विषय:- झारखण्ड ऊर्जा संचरण निगम लिमिटेड द्वारा चतरा जिला अन्तर्गत 132 के0 वी0 द्विपथ ईटखोरी- चतरा संचरण लाईन निर्माण हेतु वन भूमि अपयोजन के प्रस्ताव के संबंध में।

- प्रसंग:- (i) मे0 KRRTPL का पत्रांक KRRTPL/SM/HZB/ITKHORI/2180/2025-26, दि0 07.03.2026।
(ii) इस कार्यालय का पत्रांक 264, दि0 09.05.2023।
(iii) भारत सरकार, वन एवं जलवायु परिवर्तन मंत्रालय का पत्रांक FP/JH/TRANS/40120/2019/691, दि0 16.11.2022।

महाशय,

उपर्युक्त विषयक प्रसंगाधीन पत्र के आलोक में कहना है कि चतरा जिला अन्तर्गत 132 के0 वी0 द्विपथ ईटखोरी- चतरा संचरण लाईन निर्माण हेतु वन भूमि अपयोजन हेतु समर्पित प्रस्ताव पर सहायक वन महानिरीक्षक द्वारा उल्लेखित त्रुटियों (प्रसंग (iii)) का अनुपालन निम्नलिखित है:-

Sl.No.	Observation	Compliance
1	The kml file of total proposed forest land for diversion.	The KML file of the total proposed forest land for diversion under the 132 KV D/C Itkhori-Chatra Transmission Line Project has been duly uploaded on the MoEF&CC PARIVESH portal under the relevant section. A soft copy of the KML file has also been enclosed in a CD, which is attached with this compliance letter for the kind perusal of the competent authority.
2	The kml of complete alignment and alternative routes of transmission line explored.	KML files of the complete alignment of the 132 KV D/C Itkhori-Chatra Transmission Line (covering the entire forest land proposed for diversion) along with the two alternative alignments examined, i.e., Alternative-2 and Alternative-3, have been uploaded in the Maps/KML section of the PARIVESH portal. A soft copy of the KML file has also been enclosed in a CD, which is attached with this compliance letter for the kind perusal of the competent authority.
3	As per Geotechnical observation, it appears that proposed forest land proposed for diversion has already been violated by User Agency by starting the work in forest before the required permission. If, so, then it must be taken into cognizance at the earliest and a complete action taken report against the perpetrators in this regard may be uploaded/submitted to this office along with the explanation why forest department could not assess the violation while processing the application.	The User Agency acknowledges the seriousness of this observation and submits the following facts transparently: 1. Finding on Joint Verification: Upon identification, the implementing agency (contractor) immediately stopped all further work at those locations since 16.11.2022. After receipt of the above observations, joint verification on dated: 02.09.2023 & 03.09.2023 was conducted and it was found that 02 (two) tower locations of the transmission line had been inadvertently erected within forest land. 2. Committee Findings: A committee was constructed by Deputy Commissioner, Chatra (Office Order No. XVIII-04/02/2020667 dated 08/01/2026), to assess and identify the extent of GMJJ land and Forest land affected due to violations of Van Sanrakshan Evam Samvardhan Adhiniyam and other relevant regulations.

		<p>The Committee found:</p> <ul style="list-style-type: none"> • Total 02 (two) towers on Forest Land. • Total 39 towers on GMJJ land, of which 37 are fully erected and 02 locations have only foundation work completed. <p>A copy of the Committee Report is enclosed with this compliance letter.</p>
4	As per the Geo-spatial analysis, it also appears that the transmission line has already been installed and in the uploaded KML, the user agency has tampered with the actual transmission line routes. Situation may be explained.	<p>The User Agency categorically and respectfully submits that there has been no intentional tampering of the KML file uploaded on the PARIVESH portal. The following transparent clarification is submitted:</p> <ol style="list-style-type: none"> The alignment KML was initially uploaded in segments/patches based on the information available at that time. Consequently, the portal displayed an incomplete/fragmented alignment, which would have appeared inconsistent during geo-spatial analysis. Subsequently, a complete and consolidated alignment KML of the transmission line is prepared and submitted in soft copy (CD) along with the proposal for record and verification.
5	Three cost benefit analysis are uploaded which is ambiguous. Therefore, unnecessary files/documents should be removed.	In compliance, all unnecessary/earlier versions of the Cost-Benefit Analysis have been removed from the portal and only the final, duly vetted Cost-Benefit Analysis corresponding to the present proposal has been retained on PARIVESH.
6	User agency should submit an undertaking to abide the Chief Wildlife Warden's recommendation and also should submit the draft framework for mitigative measures/plans alongside.	<p>In compliance with this observation, the User Agency has prepared and submitted a formal Undertaking to abide by all recommendations, conditions and directions of the Chief Wildlife Warden (CWLW), Jharkhand, in respect of the 132 kV D/C Itkhori-Chatra Transmission Line Project. A signed copy of the undertaking is enclosed herewith.</p> <p>Further, a Draft Mitigation Framework for the project, including monitoring and wildlife risk-reduction measures (as applicable), has also been prepared and submitted and is enclosed for kind perusal.</p>

अतः अनुरोध है कि उक्त वन प्रस्ताव में स्टेज-1 की स्वीकृति हेतु आवश्यक अग्रतर कार्रवाई करने की कृपा की जाए।

अनु०- यथावत् ।

विश्वासभाजन

रुपा कुमारी

09/03/26

वरीय प्रबंधक,

संचरण प्रमण्डल, हजारीबाग।



झारखण्ड ऊर्जा संचरण निगम लिमिटेड

CIN: U40108JH2013SGC001704

पंजीकृत कार्यालय : एस.एल.डी.सी. भवन, कुसई कॉलोनी, डोरण्डा, राँची- 834002, झा.

वरीय प्रबंधक का कार्यालय, संचरण प्रमण्डल, हजारीबाग
प्रमण्डल कार्यालय : श्रृंगारी कॉम्प्लेक्स, प्रथम तल्ला, कनहरी हिल पथ, मॉट फोर्ट विद्यालय के निकट, हजारीबाग- 825301, झा.
ई-मेल : eeetdhzb@gmail.com

पत्रांक: 242 / ह0बाग

दिनांक: 10/03/2026

प्रेषक,

वरीय प्रबंधक,
संचरण प्रमण्डल, हजारीबाग।

सेवा में

वन प्रमण्डल पदाधिकारी,
चतरा उत्तरी वन प्रमण्डल, चतरा।

विषय:- झारखण्ड ऊर्जा संचरण निगम लिमिटेड द्वारा चतरा जिला अन्तर्गत 132 के0 वी0 द्विपथ ईटखोरी- चतरा संचरण लाईन निर्माण हेतु वन भूमि अपयोजन के प्रस्ताव के संबंध में।

- प्रसंग:- (i) मे0 KRRTPL का पत्रांक KRRTPL/SM/HZB/ITKHORI/2180/2025-26, दि0 07.03.2026।
(ii) इस कार्यालय का पत्रांक 265, दि0 09.05.2023।
(iii) भारत सरकार, वन एवं जलवायु परिवर्तन मंत्रालय का पत्रांक FP/JH/TRANS/40120/2019/691, दि0 16.11.2022।

महाशय,

उपर्युक्त विषयक प्रसंगाधीन पत्र के आलोक में कहना है कि चतरा जिला अन्तर्गत 132 के0 वी0 द्विपथ ईटखोरी- चतरा संचरण लाईन निर्माण हेतु वन भूमि अपयोजन हेतु समर्पित प्रस्ताव पर सहायक वन महानिरक्षक द्वारा उल्लेखित त्रुटियों (प्रसंग (iii)) का अनुपालन निम्नलिखित है:-

Sl.No.	Observation	Compliance
1	The kml file of total proposed forest land for diversion.	The KML file of the total proposed forest land for diversion under the 132 KV D/C Itkhori-Chatra Transmission Line Project has been duly uploaded on the MoEF&CC PARIVESH portal under the relevant section. A soft copy of the KML file has also been enclosed in a CD, which is attached with this compliance letter for the kind perusal of the competent authority.
2	The kml of complete alignment and alternative routes of transmission line explored.	KML files of the complete alignment of the 132 KV D/C Itkhori-Chatra Transmission Line (covering the entire forest land proposed for diversion) along with the two alternative alignments examined, i.e., Alternative-2 and Alternative-3, have been uploaded in the Maps/KML section of the PARIVESH portal. A soft copy of the KML file has also been enclosed in a CD, which is attached with this compliance letter for the kind perusal of the competent authority.
3	As per Geotechnical observation, it appears that proposed forest land proposed for diversion has already been violated by User Agency by starting the work in forest before the required permission. If, so, then it must be taken into cognizance at the earliest and a complete action taken report against the perpetrators in this regard may be uploaded/submitted to this office along with the explanation why forest department could not assess the violation while processing the application.	There is no violation under Chatra (North) Forest Division

4	As per the Geo-spatial analysis, it also appears that the transmission line has already been installed and in the uploaded KML, the user agency has tampered with the actual transmission line routes. Situation may be explained.	There is no deviation under Chatra (North) Forest Division and Subsequently, a complete and consolidated alignment KML of the transmission line is prepared and submitted in soft copy (CD) along with the proposal for record and verification.
5	Three cost benefit analysis are uploaded which is ambiguous. Therefore, unnecessary files/documents should be removed.	In compliance, all unnecessary/earlier versions of the Cost-Benefit Analysis have been removed from the portal and only the final, duly vetted Cost-Benefit Analysis corresponding to the present proposal has been retained on PARIVESH.
6	User agency should submit an undertaking to abide the Chief Wildlife Warden's recommendation and also should submit the draft framework for mitigative measures/plans alongside.	In compliance with this observation, the User Agency has prepared and submitted a formal Undertaking to abide by all recommendations, conditions and directions of the Chief Wildlife Warden (CWLW), Jharkhand, in respect of the 132 kV D/C Itkhori-Chatra Transmission Line Project. A signed copy of the undertaking is enclosed herewith. Further, a Draft Mitigation Framework for the project, including monitoring and wildlife risk-reduction measures (as applicable), has also been prepared and submitted and is enclosed for kind perusal.

अतः अनुरोध है कि उक्त वन प्रस्ताव में स्टेज-1 की स्वीकृति हेतु आवश्यक अग्रतर कार्रवाई करने की कृपा की जाए।

अनु०- यथावत ।

विश्वासभाजन

रुपा कुमारी
09/03/26

वरीय प्रबंधक,

संचरण प्रमण्डल, हजारीबाग।



कार्यालय:- वन प्रमंडल पदाधिकारी, चतरा दक्षिणी वन प्रमंडल, चतरा।

वन भवन, चतरा- 825401 (झारखण्ड)

Ph. & Fax (o) - 06541- 222303

e-mail:- dfo-chatrasouth@gov.in



पत्रांक दिनांक

प्रेषक,
श्री श्वेताभ सुमन, भा0व0से0
संलग्न पदाधिकारी,
चतरा दक्षिणी वन प्रमंडल, चतरा।

सेवा में,
उपायुक्त,
चतरा।

विषय :-
चतरा जिला अन्तर्गत 132 के0वी0 डी0सी0 ट्रांसमिशन लाईन (चतरा-इटखोरी) निर्माण के क्रम में गैरमजरूआ खास जंगल झाड़ी भूमि पर वन (संरक्षण एवं संवर्द्धन) अधिनियम, 1980 का उल्लंघन से प्रभावित क्षेत्र (भूमि का रकबा) चिन्हित करने के संबंध में।

प्रसंग-
आपका ज्ञापांक -XVIII-04/2020-67/रा0, दिनांक 08.01.2026

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में यह सूचित करना है कि अधोहस्ताक्षरी की अध्यक्षता में समिति द्वारा चतरा जिला अन्तर्गत 132 के0वी0 डी0सी0 ट्रांसमिशन लाईन (चतरा-इटखोरी) निर्माण के दौरान प्रयोक्ता अभिकरण द्वारा बिना पूर्वानुमति के गैरमजरूआ खास, जंगल-झाड़ी भूमि पर टॉवर निर्माण किये जाने से संबंधित मामले में वन (संरक्षण एवं संवर्द्धन) अधिनियम, 1980 तथा संबंधित नियमों के उल्लंघन से प्रभावित क्षेत्र (भूमि का रकबा) को चिन्हित कर लिया गया है तथा विस्तृत जाँच प्रतिवेदन इस पत्र के साथ संलग्न कर आवश्यक कार्रवाई हेतु समर्पित की जा रही है।

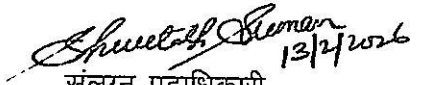
अनु0-यथोक्त।

आपका विश्वासी,
ह0/-
संलग्न पदाधिकारी,
चतरा दक्षिणी वन प्रमंडल, चतरा।

ज्ञापांक 427

दिनांक 13/02/2026

प्रतिलिपि:- श्री वैभव कुमार सिंह, भूमि सुधार उपसमाहर्ता, चतरा/श्री अनिल कुमार, अंचल अधिकारी, चतरा एवं श्रीमती रूपा कुमारी, वरीय प्रबंधक, संचरण प्रमंडल, हजारीबाग को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।


संलग्न पदाधिकारी,
चतरा दक्षिणी वन प्रमंडल, चतरा।

Report of Committee on identification of GMJJ land (with area) impacted by previously constructed towers of 132 KV D/C Itkhori-Chatra transmission line in Chatra district

In accordance with the directive issued by the Deputy Commissioner, Chatra (Office Order No. XVIII-04/2020-67 dated 08 January 2026), a committee was constituted to assess and identify the extent of GMJJ land affected due to violations of the *Van (Sanrakshan Evam Samvardhan) Adhiniyam*, 1980 and other relevant regulations during the execution of the 132 KV D/C Itkhori-Chatra transmission line project by the user agency, JUSNL (Jharkhand Urja Sancharan Nigam Limited).

The committee member representing the user agency provided the detailed list of all towers which were either already erected or whose foundation work was already done on GMJJ & Forest Land. The *.kml* file for alignment of the transmission line showing current status of project (location and nature of land of each tower) was also made available to the committee. The committee reviewed the aforesaid detailed list of towers, *.kml* file of the transmission line, land schedule of the project available with Chatra South Forest division office and latest google earth / maps satellite imagery to identify the GMJJ land over which tower erection / foundation work was done.

Committee Proceedings:

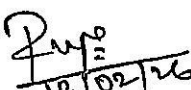
1) Upon review following observations were made:

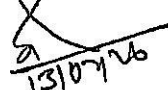
- Total no. of towers in transmission line project- 197
- Locations where tower erection / foundation work complete - 173

Thus, 173 locations were to be checked for violations under *Van (Sanrakshan Evam Samvardhan) Adhiniyam*, 1980.

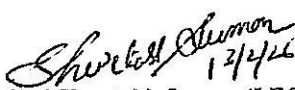
2) The detailed examination of latest *.kml file* and available land schedule for the project was carried out to ascertain that nature of land of tower locations. Out of the 173 tower locations where tower erection / foundation work is complete, 132 were found to be on Raiyati land, 39 on GMJJ land and 2 on forest land. With respect to 39 tower locations on GMJJ land, at 37 locations towers are fully erected whereas as at 2 locations only foundation work is done.

On-site inspection of certain tower locations (Annexure - I) was done on 13/02/2026 in the presence of all committee members for ascertaining nature of land and also ground truthing of nature of land as per the transmission line *.kml file* and available land schedule.


Smt. Rupa Kumari (Sr. Manager)
Transmission Div., Hazaribagh
(Member)


Shri Anil Kumar
Circle Officer, Chatra
(Member)


Shri Vaibhav Kumar Singh
LRDC, Chatra
(Member)


Shri Shwetaabh Suman (I.F.S.)
Attached Officer, Chatra
(Chairman)

- 3) For towers erected / foundation work done on GMJJ land, it was decided that the area of tower foundation based on the approved engineering drawings provided by user agency to be considered as the area impacted by violation under *Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980*.
- 4) For remaining GMJJ land parcels in which tower erection is proposed for the 132 KV D/C Itkhori-Chatra transmission line project, it was decided that such locations to be physically verified for any new violations.

Committee Findings

- 1) The committee made following observations with respect to violations by user agency in the 132 KV D/C Itkhori-Chatra transmission line project:

Total No. of Locations with violations in GMJJ	39
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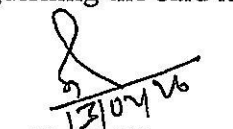
- No. of locations where full tower erection done on GMJJ land - 37
- No. of locations where only foundation work done on GMJJ land - 2
- No new violations were found on any other GMJJ land in proposed transmission line alignment during site verification

Thus, at 39 locations on GMJJ land, violation under *Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980* is confirmed. Total area impacted due to this violation is **5249.37 m² (0.5249 ha)**. Tower wise details attached in Annexure-II.

- 2) Of the total stringing length of 50.939 km proposed in the transmission line project, around 20.8km stringing is already complete.
- 3) During the inspection, and as corroborated by satellite imagery, it was observed that majority of the 39 GMJJ land parcels in which violations have been confirmed are under cultivation, which indicates that the user agency appears to have committed an inadvertent error while executing the transmission line project in physically distinguishing the said land parcels as GMJJ.


12/02/26


Smt. Rupa Kumari (Sr. Manager)
Transmission Div., Hazaribagh
(Member)


13/02/26

Shri Anil Kumar
Circle Officer, Chatra
(Member)


nb

Shri Vaibhav Kumar Singh
LRDC, Chatra
(Member)

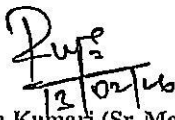

13/2/26.

Shri Shwetabh Suman (I.F.S.)
Attached Officer, Chatra
(Chairman)

4) For cases where the proposal under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 is under consideration and forest land is diverted before grant of FC, Chapter-1, Para 1.16 (ii)(a) of the Consolidated Guidelines and Clarifications issued under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and Van (Sanrakshan Evam Samvardhan) Rules, 2023 states that: -

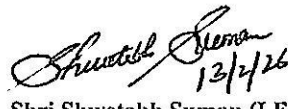
" the penalty for violations shall be equal to NPV of forest land per hectare for each year of violation from the date of actual diversion as reported by inspecting officer with maximum up to five (5) times the NPV plus 12 percent simple interest from the date of raising such demand till the deposit is made."

Thus, in light of the aforesaid provision with regards to penal NPV, further necessary action can be taken.


12/02/26
Smt. Rupa Kumari (Sr. Manager)
Transmission Div., Hazaribagh
(Member)


13/07/26
Shri Anil Kumar
Circle Officer, Chatra
(Member)


Shri Vaibhav Kumar Singh
LRDC, Chatra
(Member)


13/2/26
Shri Shwetabh Suman (I.F.S)
Attached Officer, Chatra
(Chairman)

ANNEXURE - I

SITE INSPECTION OF TOWER LOCATIONS OF 132 KV D/C ITKHORI - CHATRA TRANSMISSION LINE

SL. NO.	TOWER LOCATION NO.	GEO-COORDINATES		MOUZA	THANA	KIATA	PLOT	REMARKS	FINDINGS
		LATITUDE	LONGITUDE						
1	AP 1040	24° 13' 28.99" N	84° 52' 05.64" E	PAKARIA	174	13	89	TOWER APPEARS TO BE IN GMIJ LAND. NEED TO CONFIRM WHETHER FOUNDATION LIES IN GMIJ.	GMIJ
2	AP 1140	24° 14' 15.29" N	84° 52' 37.56" E	DARHA	157	99	705	TOWER AT THE BORDER OF GMIJ & FOREST LAND. NEED TO CONFIRM WHETHER FOUNDATION LIES IN GMIJ.	GMIJ

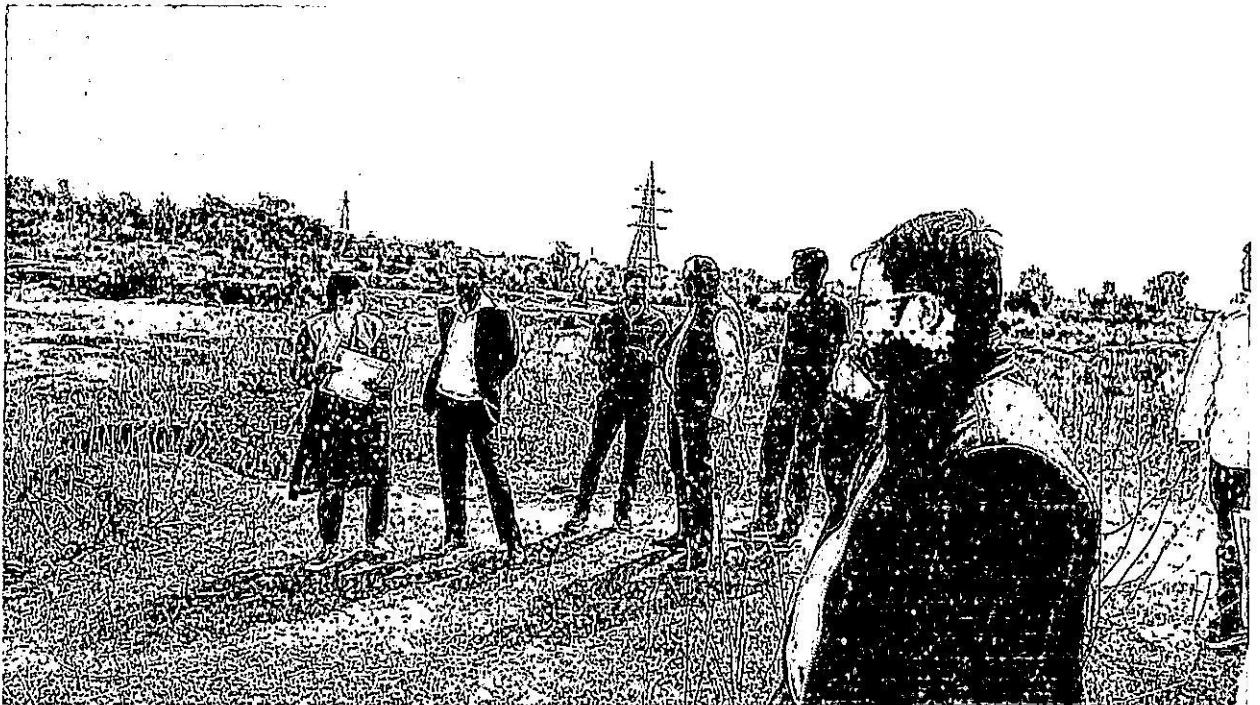
Puri
12/02/16
Smt. Rupa Kumari (Sr. Manager)
Transmission Div., Hazaribagh
(Member)

Sri Anil Kumar
12/02/16
Sri Anil Kumar
Circle Officer, Chatra
(Member)

Sri Yashvir Kumar Singh
12/02/16
Sri Yashvir Kumar Singh
LRDC, Chatra
(Member)

Shri Shwetabh Suman
12/2/16
Shri Shwetabh Suman (I.F.S.)
Attached Officer, Chatra
(Chairman)

PHOTOGRAPHS OF SITE INSPECTION (12/02/2026)



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ANNEXURE-II

JHARKHAND URJA SANCHARAN NIGAM LIMITED

132 KV Itkhorri - Chatra Transmission Line

Sl.No	Loc No (AP No)	Type of tower	CLASSIFICATION	STATUS	MOUZA	THANA NO	PLOT NO	M VALU E(mtrs)	PIT SIZE (mtrs)	AREA (SQ.MTRS)	AREA (HA)	FOREST DIVISION	REMARKS
1	22A/0	B+0	WET	Completed	Nagva	104	2431	6.792	3.07	97.26	0.00973	CHATRA SOUTH	GMJJ
2	30/0	D+0	WET	Completed	Tomand	106	290	8.985	3.71	161.16	0.01612	CHATRA SOUTH	GMJJ
3	31/0	D+0	WET	Completed	Tomand	106	757	8.985	3.71	161.16	0.01612	CHATRA SOUTH	GMJJ
4	38/0	C+0	PS	Completed	Chakravart	33	1221	7.333	3.81	124.17	0.01242	CHATRA SOUTH	GMJJ
5	40/0	B+6	WFR	Completed	Manjhagon	12	1332	8.477	3.26	137.76	0.01378	CHATRA SOUTH	GMJJ
6	41/0	B+6	WET	Completed	Manjhagon	12	1348	8.506	3.17	136.33	0.01363	CHATRA SOUTH	GMJJ
7	42/0	D+3	WET	Completed	Manjhagon	12	1348	10.089	3.84	194.02	0.01940	CHATRA SOUTH	GMJJ
8	43/1	A+3	WET	Completed	Pituj	8	2562	5.627	2.42	64.75	0.00648	CHATRA SOUTH	GMJJ
9	43/2	A+0	WET	Completed	Pituj	8	2562	5.041	2.36	54.77	0.00548	CHATRA SOUTH	GMJJ
10	44/2	A+0	WET	ONLY FOUNDATION	Pituj	8	2561	5.041	2.36	54.77	0.00548	CHATRA SOUTH	GMJJ
11	44/3	A+0	PS	Completed	Pituj	8	2461	5.041	2.44	55.97	0.00560	CHATRA SOUTH	GMJJ
12	57/1	A+3	WET	Completed	Manjhagon	12	1325	5.627	2.42	64.75	0.00648	CHATRA SOUTH	GMJJ
13	58/0	D+0	WET	Completed	Manjhagon	12	1325	8.985	3.71	161.16	0.01612	CHATRA SOUTH	GMJJ
14	62/0	B+3	WET	Completed	Manjhagon	12	119	7.649	3.17	117.05	0.01171	CHATRA SOUTH	GMJJ
15	62/1	A+0	WET	Completed	Manjhagon	12	369	5.041	2.36	54.77	0.00548	CHATRA SOUTH	GMJJ
16	65/0	D+3	WET	Completed	Sinduari kalan	28	478	10.089	3.84	194.02	0.01940	CHATRA SOUTH	GMJJ
17	66/0	D+0	FS	Completed	Sinduari kalan	28	364	8.985	4.63	185.37	0.01854	CHATRA SOUTH	GMJJ
18	67/0	C+3	WET	Completed	Sinduari kalan	28	364	8.246	3.48	137.50	0.01375	CHATRA SOUTH	GMJJ
19	68/0	D+3	WET	Completed	Sinduari kalan	28	1	10.089	3.84	194.02	0.01940	CHATRA SOUTH	GMJJ
20	71/0	D+6	PS	ONLY FOUNDATION	Barisakhi	14	1459	11.193	4.32	240.65	0.02407	CHATRA SOUTH	GMJJ
21	74/1	A+3	WET	Completed	Kurkua	16	648	5.627	2.42	64.75	0.00648	CHATRA SOUTH	GMJJ
22	89/0	D+3	WFR	Completed	Sonbigha	179	424	10.089	3.93	196.53	0.01965	CHATRA SOUTH	GMJJ
23	92/0	C+3	WET	Completed	Tunrag	178	35	8.246	3.48	137.50	0.01375	CHATRA SOUTH	GMJJ
24	93/0	D+0	PS	Completed	Tunrag	178	35	8.985	4.18	173.32	0.01733	CHATRA SOUTH	GMJJ
25	95/0	C+3	WET	Completed	Tunrag	178	12	8.246	3.48	137.50	0.01375	CHATRA SOUTH	GMJJ
26	96/0	B+6	WET	Completed	Tunrag	178	7	8.506	3.17	136.33	0.01363	CHATRA SOUTH	GMJJ
27	100/0	D+6	DFR	Completed	Mohmadih	176	78	11.193	3.19	14.383	0.02069	CHATRA SOUTH	GMJJ
28	101/0	B+0	WET	Completed	Chatra	175	2087	6.792	3.07	97.26	0.00973	CHATRA SOUTH	GMJJ
29	102/1	A+0	PS	Completed	Pakaria	174	127	5.041	2.44	7.481	0.00560	CHATRA SOUTH	GMJJ
30	102A/0	B+0	WET	Completed	Pakaria	174	127	6.792	3.07	97.26	0.00973	CHATRA SOUTH	GMJJ
31	103/0	D+3	PS	Completed	Pakaria	174	89	10.089	4.32	14.409	0.02076	CHATRA SOUTH	GMJJ
32	104/0	C+3	PS	Completed	Pakaria	174	89	8.246	3.94	12.186	0.01485	CHATRA SOUTH	GMJJ
33	105/0	B+0	WET	Completed	Pakaria	174	67	6.792	3.07	97.26	0.00973	CHATRA SOUTH	GMJJ
34	106/0	C+6	FS	Completed	Pakaria	174	67	9.159	4.38	183.30	0.01833	CHATRA SOUTH	GMJJ
35	107/0	D+0	WET	Completed	Darha	157	701	8.985	3.71	12.695	0.01612	CHATRA SOUTH	GMJJ
36	108/0	D+3	WFR	Completed	Darha	157	701	10.089	3.93	14.019	0.01965	CHATRA SOUTH	GMJJ
37	109/0	C+0	DFR	Completed	Darha	157	700	7.333	2.76	10.093	0.01019	CHATRA SOUTH	GMJJ
38	113/0	B+0	WET	Completed	Darha	157	706	6.792	3.07	9.862	0.00973	CHATRA SOUTH	GMJJ
39	114/0	D+0	WET	Completed	Darha	157	705	8.985	3.71	12.695	0.01612	CHATRA SOUTH	GMJJ
							TOTAL	5249.37					

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Smt. Rupa Kumari (Sr. Manager)
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(Member)

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Circle Officer, Chatra
(Member)

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Shri Vaibhav Kishore Singh
LRDC, Chatra
(Member)

12/01/20
Shri Shwetabh Suman (I.F.S.)
Attached Officer, Chatra
(Chairman)

COST BENEFIT ANALYSIS

[Ref: MoEF guideline No. FNO.5-3/2011-FC(Vol-I)]

Total forest area: 43.671 ha

PROJECT: CONSTRUCTION OF 132 KV DC ITKHORI - CHATRA

Table -A: - Case under which a cost - benefit analysis for forest diversion are required

No.	Nature of Proposal	Applicable/ applicable	NOT	Remarks
1	All Categories of proposal involving Forest land up to 20 hectares in plain and up to 5 hectares in hills	Not Applicable		
2	Proposal for defence installation purpose and oil prospecting (prospecting only)	Not Applicable		
3	Habitation, establishment of industrial units, tourist lodge complex and other building construction.	Not Applicable		
4	All other proposals involving forest land more then 20 hectare in plains and more then 5 hectares in hills including roads, Transmission line, minor, medium and major irrigation project, hydro project, mining captivity, railway lines, location specific installation like micro wave station, auto repeater centre, TV tower etc.	Applicable		There are cases where a cost benefit analysis is necessary to determined when diverging the forest land to non-forest land user in the overall public interest.

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Table- B:-Estimation of cost of forest diversion

SN	Parameters	Remarks	Monetary Equivalent
1	Ecosystem service losses due to proposal forest diversion	Economic value of loss of ecosystem service due to diversion of forest shall be the net present value (NVP) of the forest being diverted as prescribed by the Central Government (MoEF& CC.) Note: In case of National parks the NVP shall be ten (10) times the normal NVP or otherwise prescribe NVP by the ministry or any other competent authority	Considering the Net present value of forest area to be diverted be 12.2859 Lakh per ha as per dense forest in Eco class III Hence losses to Eco system Rupees: 43.671 ha X 12.28 lakh)=Rs.536.5375 lakh
2	Loss of animal husbandry productivity, including loss of fodder	To be quantified and expressed in monetary terms or 10% of NVP applicable whichever is maximum	53.6537 Lakh
3	Cost of human resettlement	To be quantified and expressed in monetary terms as per approved R& R plan	Nil
4	Loss of public facilities and administrative infrastructure (Road, Building, School, dispensaries, electric lines railways, etc.) on forest land, which would require forest land if these facilities were diverted due to the project	To be quantified and expressed in monetary terms on actual cost basis at the time of diversion	Nil
5	Possession value of forest land diverted	30% of environmental cost (NVP) due to loss of forests or circle rate of adjoining area in the district should be added as a cost component as possession value of forest land whichever maximum	The possession value of forest land diverted is calculated as Rs. 160.9612 lakh. (30% of NVP) However, in case of Transmission line project possession of diverted forest land is not complete required by the user Agency after completion of the project & during operation and maintenance (O & M) stage


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			As per existing MoEF guideline. Dwarf species plantation will be undertaking below the Transmission line corridor (RoW) By forest department. Only looping & pruning of tree branches near the electric conductor will be required during the maintenance period of the project.
6	Cost of suffering to ousters	The social cost of rehabilitation of ousters (in addition to the cost likely to be incurred in providing residence, occupation and social services as per R&R plan) be worked out as 1.5 times of what ousters should have earned in two years had he not been shifted.	Not applicable for this project since there is no resettlement involved.
7	Habitat Fragmentation cost	While the relationship fragmentation and forest goods and services is complex for the sake of simplicity the cost due to fragmentation has been pegged at 50% of NVP applicable as a thumb rule.	50 % of NPV: 12.2859 lakh X 43.671 ha X 50%= 268.2687 lakh
8	Compensatory afforestation and soil and moisture conservation cost	The actual cost of compensatory afforestation and soil moisture conservation and its maintenance in future at present discounted value	Cost of CA considered as 4 lakh per ha including soil & moisture conservation work. Total CA Cost = 43.671 ha *4=174.684 Lakh
9	Project Cost	Fixed assets, inclusive of investment, Current assets Loans & advances Other Expenditures like preoperative expenses, interests during construction etc.	Rs. 235.239 Lakh
	Total		(536.5375+53.6537+160.9612 +268.2687+174.684+235.239) = Rs. 1429.3441 Lakh


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Table -C-Existing guideline for estimation benefit of forest-diversion in CBA

Sr No.	Parameters	Remarks	Monetary equivalent
1	Increase productivity attribution to the specific project	To be quantified & expressed in monetary terms avoiding double counting	The monetary returns of the specific Transmission project is calculate as below: Power Flow: 80 MW Average value added: Rs. 0.31 per kwh Energy send out per year: $80 \times 1000 \times 8760 = 700.8 \times 10^6 \text{ kwh}$ Value added: $700.8 \times 10^6 \times 0.31 = 21.72 \text{ Crore/year} = 22 \text{ Crore/year}$ Value added for 50 years: $22 \times 50 = 1100 \text{ Crore} = 110000 \text{ Lakh}$
2	Benefits to economy due to the specific project	The incremental economic benefit in monetary terms due to the specific project	Uninterrupted supply of electricity can make a big difference in society. It boosts socio economic growth, irrigation, telecommunication facilities, health, education and overall economy of state. The lum sum monetary equivalent of above benefits considered as 100 lakh.
3	No. of population benefited due to specific project	As per the Detailed project report	Population of whole Chatra district will benefitted by this project. This will help to provide stable power supply of govt. office Like D.C. Office, DFO Office, Block, Thana, and other govt. buildings and household of different villages. It helps greatly to improve socio economy development of the area. The Lump Sum Monetary equivalent of the benefit is considered as: Rs.50.0 Lakh
4	Economic benefits due to direct and indirect employe	As per the Detail project report	A. Minimum 150 temporary labour engaged during the construction of transmission line for approx 300 days. Mendays(approx.)= $150 \times 300 \times 300 = 135 \text{ Lakh}$


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	nt due to the project		B. Permanent Employee =06 for entire period. Therefore 06*60000*12*25year =Rs.1080.00 Lakh
5	Economic benefits due to Compensatory afforestation	Economic Benefit Due to Compensatory Afforestation (The NPV of the CA land Considered as Prescribed by the Guidelines 5-3/2011-FC (Vol-1) Dtd.06.01.2022 NPV rates taken as Class III medium Density Forest Rs-12.2859 lacks/Ha. for 87.342 Ha (Cost For Double of 43.671 Ha.)	Benefit from such compensatory forestation is huge and monetary equivalent is equals Rs. 1073.075 Lakh
Total benefits of the project (monetary equivalent)			(110000+100+50+135+1080+1073) = Rs. 112438 Lakh

Cost benefit ratio:-

Table B: Total estimated cost of forest diversion = Rs. 1429.3441 Lakh

Table C: Total benefit to society = Rs. 112438 Lakh

Cost Benefit Ratio(CBA Ratio) = 1:78.66

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02/03/24
Senior Manager,

Transmission Division, Hazaribag
Jharkhand Urja Sancharan Nigam Limited

DRAFT FRAMEWORK FOR MITIGATIVE MEASURES

Project: 132 kV D/C Itkhorī-Chatra Transmission Line
Proposal No.: FP/JH/TRANS/40120/2019
District: Chatra, Jharkhand
Forest Division: Chatra South Forest Division & Chatra North Forest Division
State : Jharkhand

1. INTRODUCTION AND SCOPE

This Draft Mitigative Measures Framework has been prepared by JUSNL, the User Agency, in compliance with the observation of MoEF&CC and the requirement of the Chief Wildlife Warden (CWLW), Jharkhand, in connection with the Forest Diversion Proposal for the 132 KV D/C Itkhorī-Chatra Transmission Line Project.

The framework identifies potential adverse impacts of the transmission line project on wildlife, forest ecosystem, and biodiversity, and prescribes specific mitigation, management, and monitoring measures to be adopted before, during, and after construction. This framework is subject to modification/addition as per the final conditions stipulated by the CWLW and the competent authority.

2. PROJECT OVERVIEW

Project Name	132 KV D/C Itkhorī-Chatra Transmission Line
Forest Division	Chatra South Forest Division
Right of Way (RoW) Width	27 metres
Proposal no.	FP/JH/THRANS/40120/2019
Forest Division	Chatra South, Chatra North
District	Chatra
State	Jharkhand

3. IDENTIFIED ENVIRONMENTAL AND WILDLIFE IMPACTS

The following potential impacts have been identified based on site conditions, forest type, and relevant standard methodology:

Sl.	Potential Impact	Affected Component
1	Bird collision and electrocution on conductors and ground wires	Avifauna, especially raptors and large birds
2	Habitat fragmentation due to RoW clearance	Forest continuity, wildlife movement corridors
3	Tree felling and vegetation clearance	Forest cover, biodiversity, nesting sites

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4	Disturbance to wildlife during construction (noise, human movement)	Mammals, birds, reptiles in forest vicinity
5	Soil erosion and damage to forest floor at tower locations	Soil health, groundwater recharge
6	Introduction of invasive species through earth-moving equipment	Native flora

4. MITIGATIVE MEASURES

4.1 Bird Safety Measures

- Bird Flight Diverters (BFDs) / Bird Diverter Spirals shall be installed on all ground wires (earth wires) and conductors for the entire length passing through or in the vicinity of forest/wildlife areas. BFDs shall conform to specifications recommended by Birdlife International / MoEF&CC guidelines.
- The spacing of BFDs shall be as per the CWLW's specific direction, and in the absence of specific direction, shall not exceed 10 metres on ground wires and 15 metres on phase conductors in forest sections.
- Any bird mortality incidents observed on the line shall be immediately reported to the DFO, Chatra South, and the CWLW's office, and remedial measures shall be undertaken as directed.

4.2 Restriction on Tree Felling / Vegetation Clearance

- Tree felling and vegetation clearance shall be restricted strictly to the minimum RoW width sanctioned under the Forest Clearance, and shall not exceed the approved limit under any circumstances.
- No tree felling or lopping shall be carried out outside the approved RoW, even for convenience of construction or material movement.
- Felling shall be done in a manner that minimises canopy gap and shall be carried out under the supervision of the Forest Department staff.
- Timber and other forest produce obtained from felling shall be the property of the Forest Department and shall be deposited at the nearest forest depot as directed by the DFO.

4.3 Seasonal Restriction on Construction

- No construction or heavy equipment operation shall be carried out in forest areas during the breeding/nesting season of schedule-I and other important wildlife species of the area, as may be specified by the CWLW. The User Agency shall obtain a written calendar of restricted periods from the CWLW prior to commencement of construction.
- Construction activity in the forest section shall be limited to daylight hours only. No night-time construction shall be permitted within forest areas.

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4.4 Wildlife Corridor Preservation

- The RoW design shall, to the extent technically feasible, avoid bisecting known wildlife movement corridors or water bodies used by wildlife, in consultation with the DFO and CWLW.
- In sections where the line passes near wildlife corridors, all construction shall be completed in the shortest possible time to minimize continuous disturbance, using a phased and targeted approach.

4.5 Prohibition on Harmful Activities by Workers

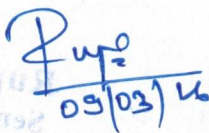
- Hunting, poaching, trapping, or possession of any wildlife or wildlife products shall be strictly prohibited for all project workers, contractors, and sub-contractors. Violators shall be immediately dismissed and handed over to Forest/Police authorities.
- Lighting of fires within the forest and within 500 metres of the forest boundary shall be strictly prohibited.
- Collection of firewood, non-timber forest produce (NTFP), or any forest material by workers shall be prohibited.
- Workers' camps and material storage areas shall be located outside forest land, and workers shall not be allowed to enter forest areas beyond the project site.
- The User Agency shall display prominent signboards at all entry/exit points of the forest section with instructions in Hindi and local language, prohibiting hunting, fire-lighting, and forest entry.

4.6 Soil and Site Restoration

- All disturbed areas at tower base locations shall be restored to near-original condition after completion of construction. Excavated soil shall be backfilled, compacted, and covered with native vegetation/grass.
- No construction debris, waste, or surplus material shall be left within forest land. The site shall be cleared of all waste within 30 days of completion of construction in each stretch.
- Adequate anti-erosion measures (jute netting, stone pitching, contour trenches) shall be provided at tower locations on slopes to prevent soil erosion.

4.7 Compensatory Afforestation and Green Belt

- Compensatory Afforestation (CA) shall be undertaken over an area equal to twice the area of forest land diverted, as per the approved CA scheme, using native species of the region as specified by the Forest Department.
- CA sites shall be maintained and monitored for a minimum period of 10 years with a survival rate of not less than 75%, as per prevailing norms.
- The Net Present Value (NPV) of the diverted forest land shall be deposited with the Compensatory Afforestation Fund Management and Planning Authority (CAMPA) as directed, before commencement of work in forest land.


09/03/24

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4.8 Emergency Response

- In the event of any wildlife injury, death, or emergency situation at or near the project site, the User Agency shall immediately inform the nearest Forest Range Officer/DFO and shall provide all necessary logistic support for rescue/response operations.
- No injured wildlife shall be transported or handled by project workers without the presence of Forest Department staff.

5. MONITORING AND REPORTING FRAMEWORK

Sl.	Monitoring Parameter	Frequency	Reporting Authority
1	BFD installation status	Monthly during construction; Annual post-commissioning	DFO, Chatra South, Chatra North / CWLW
2	Bird mortality incidents	Immediate reporting on occurrence	DFO, Chatra South, Chatra North / CWLW / MoEF&CC
3	RoW vegetation clearance compliance	During construction	DFO, Chatra South, Chatra North
4	Compensatory Afforestation survival rate	Six-monthly for 10 years	DFOs / CAMPA / MoEF&CC
5	Worker conduct and prohibited activities	Ongoing by Environmental Monitor	DFO, Chatra South, Chatra North
6	Soil restoration status at tower locations	Post-construction	DFO, Chatra South, Chatra North / CWLW
7	General site compliance report	Six-monthly	DFOs / PCCF / CWLW / MoEF&CC

6. COMMITMENT TO PREPARE FINAL MITIGATION FRAMEWORK

This Draft Mitigative Measures Framework represents the User Agency's current assessment and proposed approach to wildlife and environmental protection for the 132 KV D/C Itkhori-Chatra Transmission Line Project. It is submitted at this stage to enable the Chief Wildlife Warden (CWLW), Jharkhand, and MoEF&CC to assess the User Agency's preparedness and intent.

The User Agency hereby formally commits and undertakes that upon receipt of the formal recommendations/conditions of the Chief Wildlife Warden (CWLW), Jharkhand, it shall prepare and submit a comprehensive Final Mitigation and Management Framework (FMMF) within 30 (thirty) days of receipt of the CWLW's recommendations. The FMMF shall:

- Incorporate each and every condition and recommendation issued by the CWLW verbatim, along with the User Agency's specific plan of action, responsible personnel, and timeline for compliance against each condition.
- Supplement and refine the measures outlined in this draft framework based on actual CWLW conditions, site-specific

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09/02/22

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- ground-truth data, and any species-specific or habitat-specific requirements identified by the CWLW.
- Include a detailed budget estimate and procurement/implementation schedule for each mitigation measure.
- Include a comprehensive monitoring, reporting, and grievance redressal mechanism in accordance with the conditions of Forest Clearance and CWLW recommendations.
- Be submitted to the CWLW, DFO Chatra South, PCCF, and MoEF&CC for review and approval before commencement of any work in forest land.

The User Agency assures that no work shall commence in forest land until the Final Mitigation and Management Framework has been approved by the competent authority and all pre-commencement conditions have been fulfilled.

7. FINANCIAL COMMITMENT

The User Agency, JUSNL, hereby confirms its commitment to bear all costs associated with the implementation of the mitigative measures detailed in this framework, including but not limited to:

- Procurement and installation of Bird Flight Diverters and visibility markers.
- Compensatory Afforestation.
- Deposit of NPV with CAMPA.
- Site restoration, anti-erosion works, and waste disposal.
- Signboard fabrication and installation.
- Any additional measures directed by the CWLW or competent authority.

8. DECLARATION

The User Agency, JUSNL, declares that this Draft Mitigative Measures Framework has been prepared in good faith based on the available project information and preliminary assessment of the forest and wildlife conditions of the Chatra South Forest Division. The framework is submitted as a working document to enable the CWLW and MoEF&CC to assess the User Agency's approach. The User Agency reiterates its commitment, as stated in Section 6 above, to prepare and submit a comprehensive Final Mitigation and Management Framework (FMMF) within 50 days of receipt of the CWLW's formal recommendations, and to implement the final approved measures in letter and spirit before commencement of any work in forest land.

Rupa
09/03/16

Rupa Kumari
Senior Manager
TRANSMISSION DIVISION
Hazaribag



JHARKHAND URJA SANCHARAN NIGAM LIMITED

CIN: U40108JH2013SGC001704

Registered Office: SLDC Building, Kusai Colony, Doranda, Ranchi - 834002.

Office Of The Senior Manager,

Division Office: Transmission Division, Hazaribag.

Sringari Complex, 1st Floor, Canary Hill Road, Near Montfort School, Hazaribag - 825301

Email: eeetdhzb@gmail.com

UNDERTAKING

(To abide by recommendations/conditions of the Chief Wildlife Warden – for the subject proposal)

We, Jharkhand urja Sancharan Nigam Limited in respect of the Forest Diversion Proposal on PARIVESH bearing Proposal No. [FP/JH/TRANS/40120/2019] for 132 kV D/C Itkhori–Chatra Transmission Line in District- Chatra, Jharkhand, hereby solemnly undertake that:

We shall abide by and strictly comply with all recommendations/conditions issued by the Chief Wildlife Warden (CWLW), Government of Jharkhand, and any additional conditions/directions issued by the competent authority in connection with the said project.

Signature :

Rupa
09/03/26

Name in Block letter:

RUPA KUMARI

Rupa Kumari
Senior Manager
TRANSMISSION DIVISION
Hazaribag

Designation:

Senior Manager

Address:

Jharkhand Urja Sancharan Nigam Ltd.
Transmission Division Hazaribag