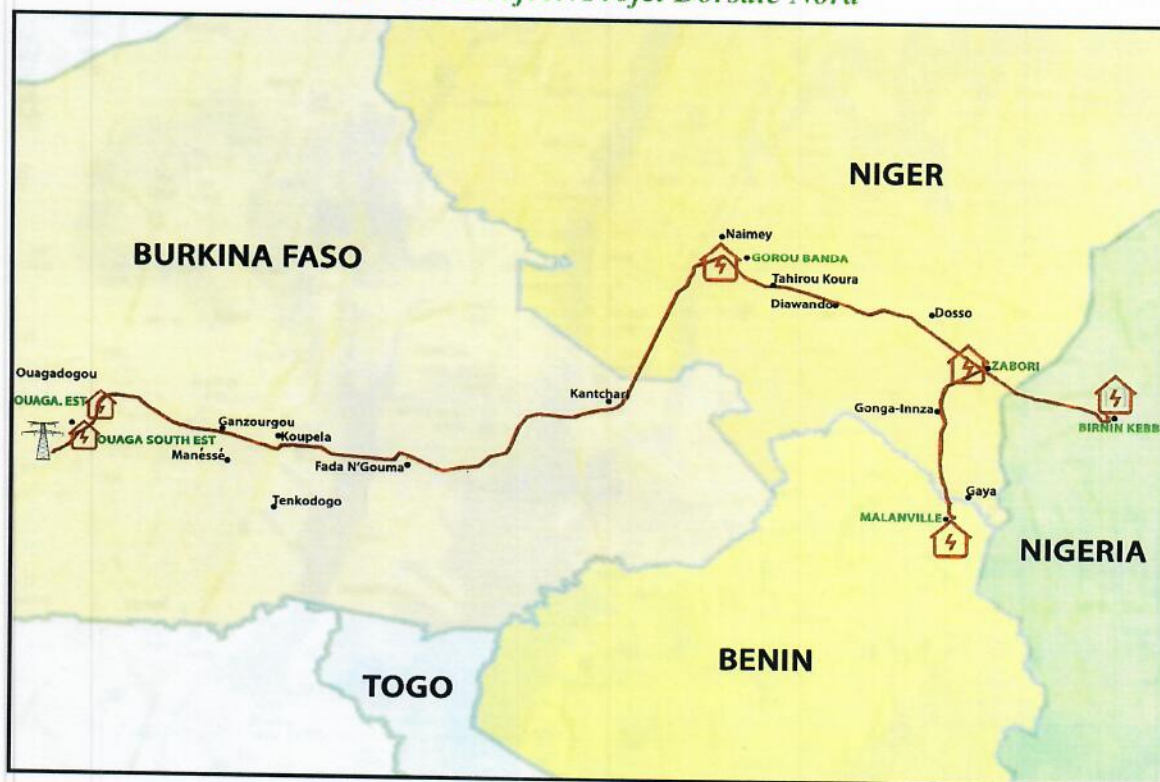




WEST AFRICAN POWER POOL
SYSTEME D'ECHANGES D'ENERGIE ELECTRIQUE OUEST AFRICAIN
North Core Project /Projet Dorsale Nord



**CONSTRUCTION OF 330KV TRANSMISSION LINE BIRNIN
KEBBI-NIGERIA/NIGER BORDER: Lot 1A-TL**

(DAO/EPC-TL/WAPP-NC/WB#01)

PRE-BID MEETING MINUTES

Financing

World Bank (IDA)

Date : November 30, 2020

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Pre-Bid Meeting Minutes

1. Agenda

- 1 Opening and Welcome
- 2 Adoption of the Agenda
- 3 Presentation of the Participants
- 4 Northcore Project Overview
- 5 Roles and Responsibilities of Stakeholders
- 6 Brief presentation of the project of DAO/EPC-TL/WAPP-NC/WB#01 and preliminary layout (KMZ)
- 7 Clarification process - Update of Questions raised and Answers
- 8 AOB

2. Pre-Bid Meeting

a) Opening and Welcome

The Director of WAPP North Core Project opened the session and welcomed all participants. The meeting started 30 minutes late, to ensure a maximum of Participants.

b) Adoption of the Agenda

The Agenda was presented by the Director and adopted, without objection.

c) Presentation of the Participants

In the context of a video conference meeting and the number of participants, the companies' representatives were invited to provide their name, company name, email address and no. telephone by chat. The list of attendance for this meeting is *in Annex 1*.

d) WAPP North Core Project Overview

The Director of WAPP North Core Project made a general presentation of the Project to provide the bidders with an overview of the project activities.

e) Roles and Responsibilities of Stakeholders

The Director of the WAPP North Core Project made a presentation, with an organizational chart of the main stakeholders of the project for all the countries concerned.

f) Brief Presentation of the Project of DAO/EPC-TL/WAPP-NC/WB#01 and Preliminary Layout (KMZ)

The WAPP North Core Project Technical Coordinator gave a brief presentation of the DAO/EPC-TL/WAPP-NC/WB#01, with the main technical characteristics. The presentation document is attached in Annex 2.

The route of the DAO/EPC-TL/WAPP-NC/WB#01, for lot 1-TL, is presented using the KMZ file. This Google Map presentation aims to give to the bidders an overview of each segment of the line route, explaining, as an indication, the main obstacles and significant changes in the relief of the terrain. During this presentation, the participating companies are informed that the route of lot 1-TL has been changed at the entrance to the Birnin Kebbi substation. This new route will be sent to the bidding companies as soon as possible.

g) Clarification Process - Update of Questions raised and Answers

Questions received to date, before and during the conference, have been compiled into a table which is presented to participants. During this video conference, participants verbally asked certain questions, which were answered. Participants were invited to send the questions raised in writing, so that a formal response could be sent to them and to all other bidders. See question / answer table, in Annex 3. *It was made clear to the participants that only the written answers presented in the appendix 3 to this minutes will commit the Employer.*

h) AOB - Nothing to report

3. Closing of the session.

The Director of WAPP North Core Project thanked the assembly and wished good luck to all the bidding companies.

Done at Abuja, the 03rd of December 2020.

Djibril Amadou MAILELE



Director

Jacques MISAGO



Senior Procurement Specialist

Annex(e) 1

Attendance List

No.	Name/Nom of/du participant	Company (JV) Name/ Nom de l'entreprise	E-Mail	Tel No.
1.	Bhola Kumar Sahu, Suresh P	KEC INTERNATIONAL LTD	sahubholak@kecrpg.com; madanbabu@kecrpg.com sureshp@kecrpg.com;	- +2348067992985 +91 9619342384
2.	LUO Yi	JV SUMEC / XIAN ELECTRIC ENGINEERING (XD)	luoyi@sumec.com.cn, wangw@sumec.com.cn and 512979399@qq.com,	+224 610678683,
3.	Christophe	TBEA		
4.		SINOHYDRO CORPORATION LTD		
5.	ALTINBAŞ Güven	SA-RA GROUP	guvenaltinbas@sara.com.tr	+90 312 285 24 24
6.	DURGESH K SINGH Amol Dhuri	TRANSRAIL LIGHTING LTD	durgesh.singh@transrailighting.com ; amol.dhuri@transrailighting.com	+229-67977767/+228- 96128989
7.	Daniel Dolha & Audelino Mate Sinobas	COBRA INSTALACIONES Y SERVICIOS S.A.	ddolha@grupocobra.com, amate@grupocobra.com	Tel. 0034 914 560 500

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No.	Name/Nom of/du participant	Company (JV) Name/ Nom de l'entreprise	E-Mail	Tel No.
8.	Avinash Prasad;	TATA PROJECTS LTD	Abalajiranganathan@tataprojects.com; bhupendras@tataprojects.com; avinashp@tataprojects.com;	+91-7038941911; +91-8826777335; +91-9953515900
9.	Tony	JV GUIZHOU POWER TRANSMISSION & TRANSFORMATION Co. LTD / KESEC ENGINEERING LTD	ksecinfo@keseceng.co.ke 870905463@qq.com zznahan@gmail.com	+2348104269326
10.	Deepak Khandelwal Salman Shakeel	ALPHATND / ASG	deepak.k@alphatnd.com	+233 202 290 456, +91 85912 00551
11.	Joe	JV APSP LTD / LAGACE POWER	lagacepower@yahoo.co.uk	+23480 570 61422
12.		SEPCO 1		
13.	Gideon Akinwande	JV DEXTRON / VALMONT	office@dextrongroup.net	07033342551

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Brief Presentation of the Project**1. Main Features**

- Towers: Self-supported Steel Lattice Towers
- Number of circuits: 2
- Conductors: Two (2) bundle of ACSR/AW Tern (Section 431.6 mm²)
- Ground Wires: One (1) ACS (Section ≥ 70 mm²), 1 x One (1) OPGW (48 fibers)
- Insulators: Composite Insulators
- Foundation type: reinforced concrete
- Earthing: 40x6, galvanized steel strip cable

2. Lot 1A-TL: Line D/C 330kV Birnin Kebbi to Nigeria/Niger Border (62 km)

- a) Extension in Birnin Kebbi Substation by 4 new bays : 2 for Northern Corridor D/C line and 2 for North Core D/C line. This extension is part of Northern Corridor project.
- b) The initial line route has changed to allow the line access the bays
- c) The layout is :
 - Existing line S/S 330 kV (Green)
 - Line Kanji-Birnin Kebbi D/C 330kV under Northern Corridor Project
 - Line Birnin Kebbi-Zabori D/C 330kV under NorthCore Project
- d) The axis of the three lines are distant of 30m.
- e) After rounding the city, the BK-ZB line runs practically alongside an existing 132 kV line that runs from BK to Dosso via Zabori.
- f) The line crosses the Sokoto River valley before heading towards the Nigeria/Niger border.
- g) Lot 1A ends at the last Tension tower before the border between the two countries.

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Annex 3

REQUESTS FOR CLARIFICATION / RESPONSES TO BIDDERS

(Up to December 08, 2020) Rev. 02

Project: WAPP-North Core/Dorsale Nord, Regional Power Interconnector Project

RFB: PQ/EPC-TL/WAPP-NC/WB#01 / Lot 1-TL

N°	Section from Bidding documents	Part	Clause	Page	Questions	Answers / Clarifications																		
A. Questions received from Oct. 30 to Nov. 30, 2020 (including Questions at Pre-Bid Meeting)																								
1	A005-A006	Appendix A, Angle Coordinates			The big residential area would be crossed between A005 and A006, the angle point coordinates are provided in the tender documents. Could the bidders ignore it and just follow the line route? Please confirm it.	The Employer will propose an alternative line route to avoid these obstacles.																		
2	A008-A009	Appendix A, Angle coordinates		Appendix	The village would be crossed between A008 and A009, could the bidders ignore it and just follow the line route?																			
3	A015-A016	Appendix A, Angle coordinates			The big residential area would be crossed between A015 and A016, could the bidders ignore it and just follow the line route?																			
4	2. LINE DESCRIPTION	Table 2-1 Main design parameters	Insulator : Composite Insulators	15	Please confirm the insulator type, composite or glass?	Insulator Type: Composite																		
	5. OBJECT	5.1 Project description	2. Bundle of ACSR/AW Tern Conductor, glass insulator strings and fittings for line	17																				
	11. INSULATORS AND ACCESSORIES	11.1 General	The insulator chains of the main conductors will be of composite type	81																				
5	6. DESCRIPTION OF THE LINE ROUTING AND PLAN PROFILE	6.2 Distance to parallel Lines	The distance between axis of the three 330 kV lines outgoing from the Birnin Kebbi Substation shall be 30 m. The 330 kV lines will be placed in the following order to avoid crossings 1. Existing 330 kV line SC Kanji - Birnin Kebbi 2. New 330 kV line DC Kanji – Birnin Kebbi 3. New 330 kV line DC Birnin Kebbi -Zabori	20	Please provide these three parallel 330kV lines outgoing direction and line routes, it should be checked crossing or not.	The google map files of the three parallel 330kV lines will be provided.																		
6	8. CONDUCTOR AND EARTH WIRE	8.5 Tension Requirement	<table><thead><tr><th></th><th>Without wind</th><th>Final condition at 10 °C before creep</th><th>Final condition at 30 °C after creep</th><th>Maximum wind</th><th>Final condition at 10 °C after creep</th></tr></thead><tbody><tr><td>Conductor</td><td>18 %</td><td>20 %</td><td>45 %</td><td>18 %</td><td>45 %</td></tr><tr><td>Earthwire</td><td>18 %</td><td>20 %</td><td>45 %</td><td>18 %</td><td>45 %</td></tr></tbody></table>		Without wind	Final condition at 10 °C before creep	Final condition at 30 °C after creep	Maximum wind	Final condition at 10 °C after creep	Conductor	18 %	20 %	45 %	18 %	45 %	Earthwire	18 %	20 %	45 %	18 %	45 %	41	The limited conductor tension of EDS is 18% or 20% of ultimate conductor tension.	Please respect the values indicated in the table 8-1 (\$8.5): 18% before creep and 20 % after creep.
	Without wind	Final condition at 10 °C before creep	Final condition at 30 °C after creep	Maximum wind	Final condition at 10 °C after creep																			
Conductor	18 %	20 %	45 %	18 %	45 %																			
Earthwire	18 %	20 %	45 %	18 %	45 %																			

9. TOWERS	9.4 Load cases/ 9.4.3 conductor tension loads	The conductor tension shall not exceed 18% of the ultimate conductor tension for every day conditions	48	The limited conductor tension of EDS is 18% or 20% of ultimate conductor tension.	Please respect the values indicated in the table 8-1 (S8.5): 18% before creep and 20 % after creep.
7	8. CONDUCTOR AND EARTH WIRE				
	8.5 Tension Requirement		41	The final Sag of conductor is 26.27m at 80 deg C for 450 ruling span after calculation using PLS-CADD. The final sag of conductor is 17.5m shown in the tender drawing WAPP-L1A-TL-004-A. Please confirm the standard suspension height of the bottom crossarm is 17.5m+8.25m+L or 26.27m+8.25m+L? L: The length of suspension insulator strings	Final sag: the final sag of conductor is shown for indication only in the drawing WAPP-L1A-TL-004-A. The final sag shall be calculated by the Contractor to calculate the height of the bottom cross arm.
9. TOWERS	9.7 Detail and construction /9.7.1.4 Accessories	Double insulator chains shall be attached to the brackets at a single point	60	Please confirm the connection points of the tension insulator strings on the tower is single or double.	Double anchor chains shall be attached at two points of attachment to the console
8	11.2 Insulator/ 11.3 Insulator chain/11.3.2 Composition of tension strings	Double anchor chains shall be attached at two points of attachment to the console	86		
	DSN-DAO-GRO-1ATL-ELE-PLA-0001- 01-02 WAPP-L1A-LT-001_007-A		5		
9. TOWERS	9.8 Accessories and nameplates, /9.8.6 Bird flight diverters	Avian anti-collision devices, or bird flight diverters, shall be fixed on earthwires in areas of high risk of collision.	67	The bird flight diverters are not listed in the BOQ, please confirm it used in this project or not.	Bird flight diverters are to be installed in the Sokoto River crossing area. The BOQ to be updated by addendum
10	9.1 Materials	Steel Grade		Could we use Chinese GB steel Q235 Q355 and Q420 instead of EN 10025 steel S235 and S355? The following is the comparison of Chinese steels with the EN 10025 steels.	Please comply with the Technical Requirements: "The steel grades selected for the manufacture of the towers will be according to standard EN 10025: • S355/JR high strength steel • S235/JR or S275/JR standard steel"
11	DSN-DAO-GRO-1ATL-ELE-BDP- 0001-01-04	Tower Foundation & Lattice Towers		Clause No. 2.4, 2.5, Estimated foundation Qty of MA and HA&DE are 6 and 6 respectively. Clause No. 4.4, 4.5, Estimated tower Qty of MA and HA&DE are 2 and 5 respectively. Please confirm?	Bidders must fill in the form as it is. Addendum will be provided if necessary.
12	DSN-DAO-GRO-1ATL-ELE-BDP- 0001-01-04	2. Towers Foundations; 4. Lattice Towers		2. Tower Foundations 151 per tower; 4. Lattice Towers 146 pcs. Bidder's comment: The number of Foundations and Towers in the table are inconsistent.	Bidders must fill in the form as it is. Addendum will be provided if necessary.
13				From the document we download "OneDrive 1_2020-11-1 Volume2 Lot 1B1C-TL Spec Tech Particulars", we noticed that this folder contains technical specification only, no price of schedule and other documents. Kindly provide them	All here-listed documents were provided. Please verify. On request, documents could also be provided again.
14				In the first page of tender, it is saying that the RFB No is "DAO/EPC-TL/WAPP-NC/WB#01", while in bid data sheet, the RFB No is "EPC-TL/WAPP-NC/WB#01", kindly clarify which one should be used?	To use: RFB/EPC-TL/WAPP-NC/WB#01

15	SECTION III-EVALUATION AND QUALIFICATION CRITERIA	2.4 Personnel			With reference to the tender DSN DAO GRO_01TL_ELE_DAO_0001.01.03_FINAL CLEAN, the footnote 3 of 2.4 personnel, section II-evaluation and qualification criteria: it states that "provide certificates of services rendered", kindly clarify that the certificate of service should be issued from the personnel's company he worked for or from the Employer of the project.	Detailed Work Certificates/Experience Letter (with details,) for Key Staff, to be included with Resume 's proposed. Shall be issued from the companies he worked with.
16		VOL. 1. Project Schedule			Considering the complexity of the projects and in order to prepare a perfect document which can show our capability thoroughly, we are hereby requesting extension of 60 days for bid submission (the new deadline for submission: March 16, 2021).	The submission dead line will be extended to January 29, 2021, by amendment.
17		STG/STP	OPGW Cables		Requesting Drawings for Fittings	Please comply with specs already provided, so, no additional drawing will be provided for this Topic
18			Bid Security (Guarantee)		Can be provided by the JV Leader?	Not agreed, please Bid Security to be provided by the approved Joint-Venture (JV)
19			ASR Environment Study and RAP		Requesting these Environment Studies	Existing Environment Studies (ES/IA and RAP) will be provided. An update of RAP is in process and will be provided when available.
20			LIDAR		Is it Cost-effective to use LIDAR, for Environment issues?	It is mandatory to use LIDAR, which will be useful for technical issues and others, as well.
21			Vol. 1		This contract is Lump-Sum or Unit Prices Basis?	Please, as per the following clauses: 11.2 Unless an adjustment clause is provided for in the PCC, the Contract Price shall be a firm lump sum not subject to any alteration, except in the event of a Change in the Facilities or as otherwise provided in the Contract. 11.3 Subject to GCC Sub-Clauses 9.2, 10.1 and 35 hereof, the Contractor shall be deemed to have satisfied itself as to the correctness and sufficiency of the Contract Price, which shall, except as otherwise provided for in the Contract, cover all its obligations under the Contract. All previous discussions on the subject are obsolete.
B. Questions received from Dec. 01 to Dec. 08, 2020 (after Pre-Bid Meeting)						
22	PARTICULAR CONDITIONS OF CONTRACT	PCC 14	Taxes and Duties	233	We understand that clause PCC 14 of Conditions of contract is addition to the GCC clause 14. Kindly confirm.	Confirmed.
23	INSTRUCTIONS TO BIDDERS & CONTRACT FORMS- ENVIRONMENTAL AND SOCIAL (ES) PERFORMANCE SECURITY	Section I & X	Section X –Contract forms- Environmental and Social (ES) Performance Security & Section I - Instructions to Bidders (ITB)- Clause 47	34 & 240	We have noted that tender asked for the ES Performance security in addition to the contract performance security. Overall performance security mentioned as 10% shall be including ES performance security and contract performance security. If above understanding is correct, kindly provide the percentage of each performance security.	Contract Performance Security covering also Environmental and social obligations: 10%. An adjusted form to be provided by addendum.
24	BID DATA SHEET (BDS)- ITB1.1 & CONTRACT FORMS-CONTRACT	Part 1-Section II& Part 2- Section X	Part 1-Section II - Bid Data Sheet (BDS)- ITB1.1 & Part 2- Section X- Contract forms-Contract	36 & 240	Please confirm the Employer of the project. As per Clause ITB 1.1. of Section II - Bid Data Sheet (BDS) the	The Employer is: Transmission Company of Nigeria (TCN), For which the West African

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AGREEMENT	Section	Agreement			Employer is given as Transmission Company of Nigeria (TCN); And as per the PCC and contract agreement the Employer mentioned as West African Power Pool WAPP - North Core / Dorsale Nord.	Power Pool (WAPP), is acting as Delegated Contracting Authority. So, the Procurement and Management of the Contract is under authority of West African Power Pool (WAPP).
25	GENERAL CONDITIONS OF CONTRACT	Section VIII	143		Mode of payment of the project is not clear. Kindly clarify; A. Direct disbursement from Financing agency to the contractor's account on approval by the Employer or; B. Disbursement from the employer's account to the contractor's account	Direct disbursement from Financing Agency (WB) to the contractor's account, after approval, for recommendation by the Employer to the Agency.
26	BID DATA SHEET	Section II - Bid Data Sheet (BDS) / ITB 20.1	40		A bid security shall be required, if the bid security shall be required, the amount and the currency of the bid security shall be: 400 000 USD. The Bid Security shall be an unconditional bank guarantee issued by commercial bank in accordance with the model annexed to the model Letter of Bid.	Is requested a bank guarantee. The issuing Bank must be a first-class, internationally recognized Bank with a correspondent Bank in the Employer's country concerned. This does not necessarily mean that the Issuing Bank must be a local bank.
27	BID DATA SHEET	Section II - Bid Data Sheet (BDS) / ITB 10.1	38		The language of the Bid is: English. In addition, the Bid, written in English, will be accompanied by its translation into French. In the event of a difference between the two versions, the English version will prevail.	The described clauses must be respected. Therefore, the submission in English and its translation into French must be provided. The English version will be regarded as prevailing, but its translation into French must be of very good quality to enable the Employer to use it for bids evaluation purposes.
28	BID DATA SHEET	Section II - Bid Data Sheet (BDS) / ITB 23.1	41		The signed offer in PDF format will be sent by email and must be protected by a password. In addition, bidders must submit duly completed price schedules and technical data sheets in Excel format. In the event of a difference between the PDF and Excel versions, the PDF version will prevail. The documents in PDF version must allow the research of key words.	All files will be transmitted electronically according to bidding documents requirements. The attachments can be either direct or downloading link. The most important aspects to be considered are: 1. once a file has been submitted, it must no longer be accessible by the tenderer. 2. the file submitted must be password-protected and will only be accessible by the Employer at the time of the opening of the tenders
29	GENERAL CONDITIONS OF CONTRACT	Section VIII – General Conditions of Contract / 10.2	141		The Employer shall be responsible for acquiring and providing legal and physical possession of the Site and access thereto, and for providing possession of and access to all other areas reasonably required for the proper execution of the Contract, including all requisite rights of way, as specified in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer. The	Compensation for the acquisition of land, crop compensation, in the corridor of the line and on the permanent (public) transverse access roads authorized by the employer shall be borne by the employer. Compensation for temporary access roads is the responsibility of the contractor. The Contractor shall comply with national legislation and the Donor's rules in this regard when making compensation.

		Employer shall give full possession of and accord all rights of access thereto on or before the date(s) specified in that Appendix.				
31	GENERAL TECHNICAL REQUIREMENTS	Volume II / General Requirements / 32.2 Training at The Contractor's headquarters	The Contractor shall bear the costs of the four (4) Employer's agents, namely: • Round trip ticket in economy class and / or business class according to Bank regulations, • Visas, • Local transport, • Per Diem and accommodation at Bank rates in the city of destination, from the day of departure to the day of return to the country of origin, • Provision of training materials in English. The training will preferably be carried out in English.		We request you to furnish Per Diem charges of Employer's agents for Training at the Contractor's headquarters	The Contractor shall comply with the World Bank rates, applicable starting at the date of departure for training.
32	PRICE SCHEDULE	Price Schedule / 4.8.2	Unit of Tower Painting is mentioned as pcs.		We understand that unit of Tower Painting should be in per tower or per ton instead of pcs. Please confirm our understanding is correct.	Line 4.8.2 only concerns painting in red and white, for only a limited number of towers, if requested by the Owner or the civil authorities. Therefore, it is correct to understand that the unit is in per tower.
33		KMZ files (Google Earth)	KMZ files (Google Earth)		We request you to furnish the kmz files (Google Earth) for the complete line corridor. Please provide site images, photos also.	The KMZ / (Google Earth) file - will be provided by the Employer for illustrative purposes only.
34		VOL. 1. Project Schedule			With reference to Notice of Request for Bids dated 30th October 2020, we hereby write to request for extension of two weeks from 15th January, 2021 to enable us prepare and submit our financial bid for above caption project because the transmission line route is changed, and we have not received new route from you.	The submission dead line will be extended to January 29, 2021, by amendment.