Urban Transmission and Distribution System Improvement Project

NEPAL ELECTRICITY AUTHORITY

Package-1: Design Build Plant and Works for Construction of Birauta 132/11kV Substation and Associated Transmission and Distribution Lines in Pokhara

[Bid Identification No.: ICB/NEA/UTDSIP/82/83-01]

CLARIFICATION of Bidding Document – No.1

Date of Issue: December 5, 2025

Clarifications to the queries received from the prospective Bidders regarding the Bidding Documents are given below:

SN.	Vol./Section/Clause / Page no. of Bidding Document	Queries of Prospective Bidder	Reply of Employer
1.	Vol 1, Section I, ITB 4 Eligible Bidders 4.2. (C)	Based on the "One Bid Per Bidder" principle, which is to ensure fair competition, a firm and any facilitate that directly or indirectly controls, is controlled by, or is under common control with that firm shall not be allowed to submit more than one Bid, either individually as a single firm or as a member of a JV. However, this does not limit a firm (including its affiliate) participating in one Bid individually or as a member of a JV and at the same time, the firm (including its affiliate) participating in other Bids as a subcontractor **but NOT acting as a specialized subcontractor (refer to ITB 16.3). A firm (including its affiliate) acting as a specialized subcontractor or as a subcontractor in any Bid may participate in other Bids as a specialized subcontractor or as a subcontractor.** **Question:** Please clarify if specialized subcontractor should be exclusive to one Bidder.	The intent of the question is not entirely clear. Nevertheless, to better understand the policy regarding conflict of interest under ITB Clause 4.2(C), Bidders are advised to refer to Section 1.07 of Chapter 2 in the Guidelines for Procurement under Japanese ODA Loans, available at the following link: https://www.jica.go.jp/english/activities/schemes/finance_co/guide/handbooks/__icsFiles/afieldfile/2025/02/13/201204_02_chapter2_en.pdf
2	Vol 1, Section I, ITB 14.9 Particular Conditions	Please clarify if Japanese company's branch registered in India (i.e 100% its share shall be owned by Japanese company) can be considered as Japanese company and can be exempted from duties, taxes and levies mentioned in this item.	A Japanese company's branch registered in India cannot be considered as a Japanese company and therefore cannot be exempted from duties, taxes, and levies.
3	Vol 1, Section II, ITB 15.1	(b) the inputs to the Works that the Bidder expects to supply from outside the Employer's country (referred to as "the foreign	As stated in ITB/BDS Sub-Clause 15.1(b), the foreign currency inputs to the Works shall be quoted in Japanese Yen (JPY),

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		currency"), shall be quoted in JPY (Japanese Yen), with no decimal places. **Question:** Please accept INR (Indian Rupee) in addition to JPY.	without decimal places. Therefore, quoting in Indian Rupees (INR) is not acceptable.
4	Vol 1, Section II, ITB 19.1	The amount and currency of the Bid Security shall be USD 280,000.00 (US Dollars Two Hundred Eighty Thousand only). **Question:** Please accept the Bid Security to be issued by 1st reputable Japanese and/or Indian bank.	A Bid Security issued by a first-class reputable foreign bank is acceptable, provided it is counter-guaranteed by an A-Class commercial bank in Nepal. A forthcoming **Addendum** to be issued by the Employer.
5	Vol 1, Section IV, Bidding Forms	Please provide the Bidder with the soft data (Microsoft Office Word) of each Form.	Bid forms will be available to download from NEA homepage.
6	Vol 1, Section VIII, Particular Conditions, Governing Law	Please accept the Law of Singapore, because the law of third country shall be fair for both parties.	As stated in the Particular Conditions (PC), the governing law shall remain as specified in the Bidding Document. Therefore, the request to apply the law of Singapore is not acceptable.
7	Vol 1, Section VIII, Particular Conditions, Performance Security	A bank guarantee issued by a foreign bank as the Performance Security shall be counter guaranteed by an A Class commercial bank of Nepal. The Contractor shall submit this counter guarantee with the Performance Security **Question:** 1) Please accept the Performance Security to be issued by 1st reputable Japanese and/or Indian bank because it is enough that a foreign institution providing a bond shall have a correspondent financial institution located in the Employer's countryin accordance with ITB No. 41.1. 2) Please accept to issue Performance Security for each Section separately.	1) A Bank Guarantee issued by a first-class reputable foreign bank is acceptable, provided it is counter-guaranteed by an A-Class commercial bank in Nepal. 2) The Performance Security issued for each Section separately is acceptable.
8	Vol 1, Section VIII, Particular Conditions, Total advance Payment	(ii) an Advance Payment Guarantee in amounts and currencies equal to the advance payment, and (iii) a counter guarantee issued by an A Class commercial bank of Nepal **Question:**	1) Advance Payment Guarantee issued by a first-class reputable foreign bank is acceptable, provided it is counter-guaranteed by an A-Class commercial bank in Nepal. 2) Advance Payment Guarantee issued for each Section separately is acceptable.

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		1) Please accept the Advance Payment Guarantee to be issued by 1st reputable Japanese and/or Indian bank because it is enough that a foreign institution providing a bond shall have a correspondent financial institution located in the Employer's country in accordance with ITB No. 41.1. 2) Please accept to issue Advance Payment Guarantee for each Section separately.	
9	Vol 1, Section VIII, Particular Conditions, Sub-Clause 14.2 Advance Payment	(ii) a guarantee in amounts and currencies equal to the advance payment. This guarantee shall be issued by a reputable bank or financial institution selected by the Contractor, and shall be in the form annexed to the Particular Conditions or in another form approved by the Employer. **Question:** Please clarify if this description supersedes the above one and accept Advance Payment Guarantee to be issued by 1st reputable Japanese and/or Indian bank.	It is acceptable Advance Payment Guarantee to be issued by 1st reputable Japanese and/or Indian bank provided it is counter-guaranteed by an A-Class commercial bank in Nepal.
10	Vol 1, Section VIII, Particular Conditions, Limit of Retention Money	10 % of the Accepted Contract Amount **Question:** Please accept to deduct the amount of retention money to 5% of Accepted Contract Amount.	As specified in the Particular Conditions, the limit of Retention Money shall remain at 10% of the Accepted Contract Amount. Therefore, the request to reduce the retention money to 5% is not acceptable.
11	Vol 1, Section VIII, Particular Conditions, Sub-Clause 14.7 Payment	(b) the amount certified in each Interim Payment Certificate within 56 days after the Engineer receives the Statement ・ ・ ・ (c) the amount certified in the Final Payment Certificate within 56 days after the Employer receives this Payment Certificate ・ ・ ・ **Question:** Please accept the payment under (b) and (c) within 28 days after the receipt of each required document by the Engineer or the Employer.	As specified in the Particular Conditions, the payment terms shall remain unchanged. Therefore, the request to shorten the payment period under Sub-Clause 14.7(b) and (c) to 28 days is not acceptable.
12	Vol 1, Section VIII, Particular Conditions, Sub-Clause 14.9 Payment of Retention money	The release of the second half of the Retention Money against a guarantee shall then be in lieu of the release under the second paragraph of his Sub-Clause	1) Retention Security issued by a first-class reputable foreign bank is acceptable, provided it is counter-guaranteed by an A-Class commercial bank in Nepal.

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		Question: 1) Please accept the Retention Security to be issued by 1st reputable Japanese and/or Indian bank because it is enough that a foreign institution providing a bond shall have a correspondent financial institution located in the Employer's countryin accordance with ITB No. 41.1. 2) Please accept to issue Retention Security for each Section separately.	2) Retention Security issued for each Section separately is acceptable.
13	Vol 1, Section VIII, Particular Conditions, Contract Agreement	2. 'The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents. (a) the Letter of Acceptance; (b) the Letter of Technical Bid; (c) the Letter of Price Bid; (d) addenda, if any; (e) the Particular Conditions; (f) the General Conditions; (g) the Employers Requirements; (h) the completed Schedules; (i) the Contractors Proposal and any other documents; (j) the Acknowledgement of Compliance with Guidelines for Procurement under Japanese ODA Loans; and (k) the Bidders Safety Declaration (Form JSSS/BSD). **Question:** Please accept the order of the priority of each documents which consists of the Agreement as follows, in the event that there is any discrepancy between each document; (a) the Particular Conditions; (b) the General Conditions; (c) the Letter of Acceptance; (d) the Letter of Technical Bid; (e) the Letter of Price Bid; (f) the Contractor's Proposal and any other documents; (g) addenda, if any;	As specified in the Particular Conditions, the order of precedence among the Contract documents shall remain unchanged. Therefore, the proposed revision to the priority order of documents is not acceptable

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		(h) the Employers Requirements; (i) the completed Schedules; (j) the Acknowledgement of Compliance with Guidelines for Procurement under Japanese ODA Loans; and the Bidders Safety Declaration (Form JSSS/BSD).	
14	Vol 1, Section IX, Annex IV-1, Form of Price Schedule	Please provide the Bidder with the soft data (Microsoft Office Excel) of each Form.	The editable form of Price Schedule has already been available on the NEA Website: https://www.nea.org.np/tender_prequalification
15	Vol 1, Section VIII, Annex to Part A, Import License	The Contractor shall inform the Project Manager of Employer in writing the details of the equipment and material to be imported into Nepal for use on the Works at least 56 days prior assistance from the Employer for importing processing. The Employer will assist the Contractor to obtain necessary permits for import of such equipment and materials into Nepal. **Question:** Please clarify the following item. 1) Who is consignee? 2) What kind of document is required? 3) What is different from the procedure of master list? 4) Once import license based on mater list is issued, is it used continuously? Or, Does the contractor get the import license for each shipment?	The following information is for reference, which shall be confirmed with the Employer during a kick-off meeting after signing on the Contract: 1) The consignee is the Project name. All goods listed solely for the use of the Project 2) Request letter from the Contractor detailing the goods to be imported to Nepal for the use of the Project. 3) No difference. It is a Master List approved from the concerned authorities. 4) The Contractor has to get import license for each consignment (shipment).
16	Vol 1, Section VIII, Annex to Part A, Duties on Equipment, Plant, Material and Supplier	(b) Any plant, materials or supplier imported (eg. for temporary use) by the Contractor for the performance of Works but not incorporate in the Works shall be taken out of Nepal within 90days from the date of issuance of the Performance Certificate **Question:** Please clarify if Any plant, materials or supplier imported (eg. for temporary use) can be taken out of Nepal after the Works without waiting for Performance Certificate.	It is not problem that any plant, materials or supplier imported (eg. for temporary use) will be taken out from Nepal without waiting for Performance Certificate.
17	Vol 1, Section VII, General Condition, 10.1 Taking Over of the Works and Sections	Please confirm that Taking Over Acceptance Certificate of the following Sections is issued individually regardless the completion of other Section.	The Taking Over Certificate may be issued separately for each Section, including

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		-Substation Work -Transmission Line Work -Distribution Line Work	– Substation Work – Transmission Line Work – Distribution Line Work.
18	Vol 1, Section VII, General Condition, 11.9 Performance Certificate	Please confirm that Performance Certificate of the following Sections is issued individually regardless the completion of other Section. -Substation Work -Transmission Line Work -Distribution Line Work	The Performance Certificate may be issued separately for each Section, including: – Substation Work – Transmission Line Work – Distribution Line Work.
19	Vol 1, Section III, Evaluation and Qualification Criteria, 2.3 Financial Situation and Capabilities	Do each company need to set financial requirements for the JV when bidding? Is it enough if they are all set as a JV?	In the case of a Joint Venture (JV), each member must comply with the requirements specified in the "Compliance Requirements" column of EQC Sub-Clause 2.3.
20	Vol 1, Section III, Evaluation and Qualification Criteria, 1.1.1 Personnel	Can we interpret the meaning of "Plant" as meaning a substation?	The meaning of the question may not be entirely clear. However, for example, in the context of Substation Work, the term "plant" refers to the substation itself — as the Chief Engineer is required to have experience in plant engineering and design. In contrast, for Transmission Line Work, "plant" refers to the underground transmission line.
21	Vol 1, Section IV, Bidding Forms, Form JSSS/BDS, Form ACK	Do each company have to prepare a "Safety Declaration JICA = JSSS" and a "JICA Procurement Guidelines Compliance Declaration"? Is it enough for the JV to prepare and submit one copy?	One copy of the "Form JSSS/BSD, Bidder's Safety Declaration" is sufficient for submission by a JV bidder. It is not necessary for each member of the JV to submit the form individually.
22	Vol 1, Section III, Evaluation and Qualification Criteria, 2.4.2 Specific Experience (for Substation Work)	b) For the above or other contracts completed as prime contractor(i) (single entity or JV member) or subcontractor(vi) between 1st January 2010 and Bid submission deadline, a minimum experience in the following key activities successfully completed(iii): **Question:** What kind of project does "Other Contract" mean?	For the requirement under Sub-Clause 2.4.2(1)(a), bidders must submit experience as a prime contractor. For Sub-Clause 2.4.2(1)(b), additional project experience may be submitted, including that of a subcontractor, to meet the specific activity requirements. Therefore, "Other Contract" may refer to relevant contracts completed either as a JV member or subcontractor, provided they meet the criteria specified.
23	Vol 1, Section IX, Contract Firms (BF), Schedule of Payments	What percentage of cables do you need to have spare parts? Are these spare parts included in the recommended spare parts?	Please refer to Schedule No.6 for the mandatory spare parts requirements, including any provisions related to spare cable quantities. Recommended spare parts may be proposed in Schedule No.7.

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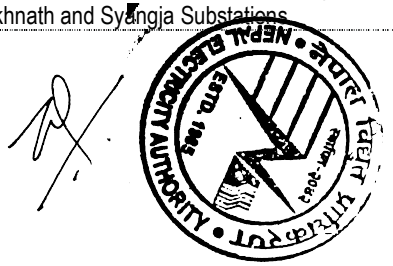
24	Vol 1, Annex IV-1, Schedule No.3 (A1): Supply of Plant (Off-Site), A1.1.1	We understand that since 132kV GIS is double bus bar arrangement, hence no. if bus bars shall be 2 nos. instead of 1 no. Kindly confirm.	Confirmed. Please understand one set of busbar is composed of two single busbars.
25	Vol 1, Annex IV-1, Schedule No.3 (A1): Supply of Plant (Off-Site), A1.8	Kindly confirm where to quote for LT Power & Control Cables as the description of line items mentioned in the said clause mentioned for 145kV & 11kV Cable only.	A new item of "A1.8.3 Low Voltage Power and Control Cable" will be added to Price Schedule No.3(A1): Supply of Plant (Off-Site), under A. SUBSTATION WORK – A1. Birauta Substation, through a forthcoming **Addendum** to be issued by the Employer. Therefore, please include the cost estimate for LT power and control cables under this new item in the Price Schedule.
26	Vol 1, Annex IV-1, Schedule No.3 (A2): Supply of Plant (Off-Site), A2.1.1	Kindly confirm the make of SAS and control panels at Lekhnath Substation.	The SAS and control panels installed at Lekhnath Substation were manufactured by General Electric.
27	Vol 1, Annex IV-1, Schedule No.3 (A2): Supply of Plant (Off-Site), A2.3.1	Requirement of power cable is not mentioned, we understand that power cable shall be supplied by customer. Kindly confirm.	The existing power cable may be used for the implementation of the Lekhnath Substation. However, if any additional power cable is required to complete the system, it shall be supplied by the Contractor.
28	Vol 1, Annex IV-1, Schedule No.3 (A1): Supply of Plant (Off-Site), A3.1.1	Kindly confirm the make of SAS and control panels at Syangja Substation.	The SAS and control panels installed at Syangia Substation were manufactured by General Electric.
29	Vol 1, Annex IV-1, Schedule No.3 (B1): Supply of Plant (Off-Site), B1.1/B1.2/B1.3/B1.4/B1.5	We understand that bidder has to consider the quantity mentioned in the schedule only, any variation in the quantity shall be payable during execution stage.	Your understanding is correct. Besides, the quantities of the items mentioned in Item 12 of "A. Preamble" of the Price Schedule on page no. BF-11, Section IV. Bidding Forms shall be finalized (adjusted) on a re-measurement basis.
30	Vol 1, Annex IV-1, Schedule No.3 (A3): Supply of Plant (Off-Site), A3.3.1	Requirement of power cable is not mentioned, we understand that power cable shall be supplied by customer. Kindly confirm.	The existing power cable may be used for the implementation of the Syangja Substation. However, if any additional power cable is required to complete the system, it shall be supplied by the Contractor.
31	Vol 1, Annex IV-1, Schedule No.3 (C3): Supply of Plant (Off-Site), C3.2.1	Redundant AC supply is mentioned, however in the technical specifications Vol. 4, Cl. 5.2.4, supply voltage is mentioned as "-48V DC". Kindly confirm the requirement.	Both requirements are correct. MLLPS equipment needs redundant AC power supply. In the equipment, AC shall be converted into DC -48V. C1 5.24 mainly stipulates power supply for the FRTU.
32	Vol 1, Annex IV-1, Schedule No.3 (B1): Supply of Plant (Off-Site), B1.1.1	We understand that 132kV 800Sq.mm cable is single core and the length mentioned "1540Mtr" is the route length and total length to be supplied shall be "4620mtr". Kindly confirm.	Your understanding is incorrect. The 132kV power cable is of the triplex type, which consists of three single-core cables twisted together. The specified length of 1540 meters refers to the total cable length, not the route length.
33	Vol 2, Section VI, A1 Scope of Work, 4.2 & 4.3,	As per Note 1 (for Lekhnath & Syangia SS), bidder has to supply only ABB SDH equipment. However, as per our	The Bidder shall establish a new complete SDH system at both Lekhnath and Syangja Substations.



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	Annex-1 Drawing for Substation Work (No. BIR-SS-E-1003, Note-1)	understanding the scope at Lekhnath and Syangia only involves modification of existing SDH equipment. In this regard, Kindly provide the drawings of existing SDH equipment at Lekhnath and Syangia substations.	At Lekhnath Substation, the existing SDH system shall be modified to enable communication between the new SDH and the existing system. The existing SDH system at Lekhnath Substation is shown in Drawing No. BUR-SS-E-003.
34	Vol 2, Section VI, A1 Scope of Work, 2.2 & 2.3,	The details of existing tele-projections, both analogue and digital are required to properly assess the modifications that will be required in the tele-protection system. Please clarify	The current differential relay (87L) shall be connected directly to the OPGW and linked to the remote Birauta end. For tele-protection using distance relays, communication shall be established via the SDH system. A suitable interface shall be provided between the distance relay and the SDH system to ensure proper functionality.
35	Vol 2, Section VI, A1 Scope of Work, 2.2 & 2.3,	Kindly provide the make and model of existing distance/differential relays at Lekhnath and Syangia substations.	Protection Relays: Distance + Differential Relay : GE P543 OC/EF Relay : GE P14DB
36	Vol 2, Section VI, A1 Scope of Work, 4.1.8	Kindly provide the ERT of Birauta substation report for estimation of earthing materials.	Please refer to APPENDIX-A3: *"Report on Geotechnical Investigation Work on Birauta Substation and Transmission line (Pokhara)"* included in the Bidding Documents.
37	Vol 2, Section VI, A1 Scope of Work, 5.17.1	Kindly confirm the type of cooling for 200kVA Auxiliary transformer.	ONAN can be applied to 200kVA auxiliary transformer.
38	Vol 2, Section VI, A1 Scope of Work, 4.1.1 145 kV Indoor Switchgear	We would like to inform that the GIS design is three phase encapsulated design and thus the Voltage Transformer shall be three phases encapsulated. The quantity of VT shall be 2 Nos. (one for each bus bar) We believe the same shall be acceptable.	The proposed three-phase encapsulated GIS design is acceptable. Accordingly, the use of three-phase encapsulated Voltage Transformers (VTs), with a quantity of two units (one for each busbar), is also acceptable.
39	Vol 2, Section VI, A1 Scope of Work, 4.1.1 145 kV Indoor Switchgear	The busbar module does not need a separate Local Control Panel. Kindly clarify if there is requirement of separate LCC for bus bar.	A separate Local Control Cabinet (LCC) is **not required** for the busbar module itself. However, LCCs **are required** for the associated equipment, including the busbar VT, isolator, and earthing switch.
40	Vol 2, Section VI, A1 Scope of Work, 4.1.1 145 kV Indoor Switchgear	We would like to inform that we will offer integrated type Local Control Panel as we have offered for many other 132kV projects. We believe the same shall be acceptable.	The proposed integrated type Local Control Panel (LCP), as used in other 132kV projects, is acceptable, subject to the Engineer's review and formal approval during the detailed design stage.
41	Vol 2, Section VI, A1 Scope of Work, 4.1.1 145 kV Indoor Switchgear	2) 2 Nos. of 145 kV GIS Line Feeder Bay for Lekhnath HV Cable circuit and Syangja HV Cable circuit, each comprising; 3 Nos. - 145 kV current transformers with cores as follows; 200-400-800/1 A, Class PS for Main 1	Please refer to Clause 2.1.2 (4)(d) on Page A2-2-25 of Chapter 2 in Volume 2. The Bidder shall determine the burden rating of each CT core by calculating the total burden, taking into account CT secondary resistance, CT cable resistance, relay burden, and the required relay characteristics.

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		Protection 200-400-800/1 A, Class PS for Main 2 200-400-800/1 A Class 5P20 for Backup Protection 200-400-800/1 A, Class 0.5 for Line Feeder Control 2000/1 A, Class PS for Busbar Differential Protection and Breaker Failure Protection **Question:** Please kindly provide us with the burden rating for CT cores. Also the CT shall be three phase encapsulated design so there will be 1 No. of CT per bay. We believe the same shall be acceptable.	The use of three-phase encapsulated CTs, with one unit per bay, is acceptable, subject to the Engineer's review and approval during the detailed design stage.
42	Vol 2, Section VI, A1 Scope of Work, 4.1.1 145 kV Indoor Switchgear	(3) 2 Nos. of 145 kV GIS Transformer Feeder Bay, each comprising; 3 Nos. - 145 kV current transformers with cores as follows; 400/1 A, Class PS for Main 1 Protection 400/1 A, Class PS for Main 2 Protection 400/1 A Class 5P20 for Backup Protection 400/1 A, Class 0.5 for Transformer Feeder Control 2000/1 A, Class PS for Busbar Differential Protection and Breaker Failure Protection **Question:** Please kindly provide us with the burden rating for CT cores. Also the CT shall be three phase encapsulated design so there will be 1 No. of CT per bay. We believe the same shall be acceptable.	Please refer to Clause 2.1.2 (4)(d) on Page A2-2-25 of Chapter 2 in Volume 2. The Bidder shall determine the burden rating of each CT core by calculating the total burden, taking into account CT secondary resistance, CT cable resistance, relay burden, and the required relay characteristics. The use of three-phase encapsulated current transformers (CTs), with one unit per bay, is acceptable, subject to the Engineer's review and approval during the detailed design stage.
43	Vol 2, Section VI, A1 Scope of Work, 4.1.1 145 kV Indoor Switchgear	(4) 1 No. of 145 kV GIS Bus Coupler Bay, comprising; 3 Nos. - 145 kV current transformers with	Please refer to Clause 2.1.2 (4)(d) on Page A2-2-25 of Chapter 2 in Volume 2.

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		cores as follows; 2000/1 A, Class 5P20 for Overcurrent Protection 2000/1 A, Class PS for Busbar Differential Protection and Breaker Failure Protection 3 Nos. - 145 kV current transformers with cores as follows; 2000/1 A, Class PS for Busbar Differential Protection and Breaker Failure Protection 2000/1 A, Class 0.5 for Bus Section Control **Question:** Please kindly provide us with the burden rating for CT cores. Also the CT shall be three phase encapsulated design so there will be 1 No. of CT per bay. We believe the same shall be acceptable.	The Bidder shall determine the burden rating of each CT core by calculating the total burden, taking into account CT secondary resistance, CT cable resistance, relay burden, and the required relay characteristics. The use of three-phase encapsulated CTs, with one unit per bay, is acceptable, subject to the Engineer's review and approval during the detailed design stage.
44	Vol 2, Section VI, A2 Technical Specification, 2.1.2 High Voltage 145kV - Metal-Clad, SF6 Insulated Switchgear	The arrangement of the switchgear shall be in such a way that any part can be removed without dismantling, interruption or disturbance to adjacent feeders or circuits. **Question:** We would like to inform that, active part of the circuit breaker is removed without removing another element. In standard practice, there is no need of removing entire CB assembly (i.e., in the event of repair on interrupter, busbar will be remained in service. But, it is not possible in the case of replacement / removal of entire Circuit Breaker assembly). We believe the same shall be acceptable.	The GIS shall be designed to allow bay-by-bay replacement in case of serious faults. For example, flexible joints shall be provided to enable the replacement of an intermediate bay within a row of GIS bays. While partial maintenance (e.g., interrupter repair) may not affect adjacent feeders, the complete replacement of a circuit breaker assembly may require isolation of the affected bay. Therefore, the proposed approach is generally acceptable, subject to detailed design review and Engineer's approval.
45	Vol 2, Section VI, A2 Technical Specification, 2.1.2 (1) Common Features	The local control panels shall be free standing and shall be factory-tested. **Question:** The 132kV GIS has integrated LCC which is well proven design and also cost efficient. Kindly confirm if we can offer integrated type LCC.	It is acceptable to provide an integrated Local Control Cabinet (LCC) with the GIS, provided that all required functions are fully incorporated and accessible within the integrated LCC.

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46	Vol 2, Section VI, A2 Technical Specification, 2.1.2 (3) Requirements for the SF6 gas-insulated switchgear	The moisture content of the breaker compartment during service shall thereby keep less than 50ppm (by weight) and 100ppm (by weight) for all other compartments. **Question:** The moisture content during service for the following compartments are: Circuit breaker: 300 ppm Voltage transformer: 300 ppm Other equipment: 500 ppm We believe the same shall be acceptable.	The proposed moisture content values are not acceptable for SF_6 gas compartments in GIS equipment. The moisture content shall strictly comply with the technical requirements specified in the Bidding Documents.
47	Vol 2, Section VI, A2 Technical Specification, 2.1.2 (4) Particular Requirements of Primary Electrical Equipment	High-speed earthing switches The contacts shall withstand the rated short circuit current of the switchgear for one second without burning or welding. They must be capable of switching capacitive currents no less than 10A at 15 kV and inductive currents no less than 160 A at 15 kV. **Question:** We would like to inform that the rating for capacitive current is 2A at 6kV and inductive currents is 80A at 2kV. We believe the same shall be acceptable.	The proposed switching current ratings (2A at 6kV for capacitive and 80A at 2kV for inductive) are not acceptable for 132kV GIS applications. The high-speed earthing switches shall comply with the technical requirements specified in the Bidding Documents
48	Vol 2, Section VI, A2 Technical Specification, 2.1.2 (4) Particular Requirements of Primary Electrical Equipment	The switches shall be provided with a stored energy drive mechanism. Padlock facilities plus padlocks shall be provided for the operating mechanism to be securely locked in either open or closed position. **Question:** Disconnectors and maintenance earthing switches are motor operated and do not have stored energy mechanism. Requesting you to kindly accept the same.	The proposed omission of the stored energy drive mechanism is not acceptable. The switches shall comply with the technical requirements specified in the Contract, including the provision of a stored energy drive mechanism and padlock facilities for secure locking in both open and closed positions.
49	Vol 2, Section VI, A2 Technical Specification, 2.1.2 (5) Local Control / Marshalling Kiosks	A general arrangement drawing of the kiosk showing the position of all important and the mounting position shall be submitted at the Bidding stage. **Question:**	It is acceptable to submit a general arrangement drawing of a similar type of local control cubicle from other projects for reference at the bidding stage. The final project-specific drawing shall be submitted during the execution stage, subject to the Engineer's review and approval.

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		We can provide general drawing reference from other projects. The actual project drawing shall be provided during the execution stage. We believe the same shall be acceptable	
50	Vol 3, Section VI, B1 General Requirement, 1.1.3 Quality Assurance	The quality of the design, manufacturing and erection processes shall be assured by the Contractor in accordance with the ISO9000 series standards. The Contractor shall provide his possession of the respective certificates. The Bidder shall prove that the quality of the design, manufacturingand erection would be done in accordance with the ISO9001. The Bidder shall submit respective certificates issued by an International Organization at least for the equivalent list below. **Question:** It is mentioned that at least the equivalent list below and from (a) to (f). Can we consider the certificate that must be submitted is limited to (a) to (f)?	The certificates to be submitted in accordance with ISO 9001 requirements are primarily limited to the items listed under (a) to (f) in the Bidding Documents. However, Bidders are also advised to refer to Sub-Clause 1.1.3 of Section III – Evaluation and Qualification Criteria, as ISO certificates must be required for other minimum qualification items as well.
51	Vol 3, Section VI, B1 General Requirement, 1.1.7 Contractor's Documents	The Contractor shall submit a complete list of Contractor's Documents, **within one month** after the Contract commencement date, listing the drawing number and title, together with the expecting first issue date that the drawing is planned to be submitted for approval, and the date it is required on site. **Question:** Is it possible to extend the submission period of list of contractor's documents? Because there are several scopes of work in this contract, and it takes time to prepare it.	As per Sub-Clause 1.1.7, the Contractor is required to submit the initial list of Contractor's Documents within one month after the Contract commencement date. However, considering the broad scope of work, the Contractor may submit a revised and updated list of Contractor's Documents after the initial submission, subject to the Employer's approval.
52	Vol 3, Section VI, B2 Technical Specification, 2.13 Cable Construction	Bidder shall submit the sectional drawing of cable construction considering DTS with the Bid proposal **Question:** Is this mean to add DTS on the sectional drawing that need to be submitted?	As per Sub-Clause 2.13 of Volume 3, Bidders are requested to submit a sectional drawing of the cable construction including the DTS sensor. If the DTS sensor is integrated within the power cable, it may be shown in the same sectional drawing. However, if the DTS system is installed separately from the power cable, Bidders may illustrate the relative positions of the power

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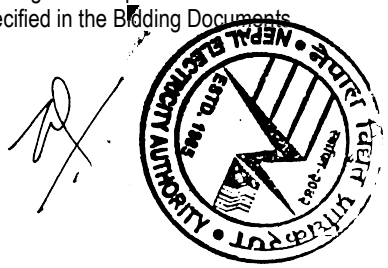
			cable and DTS sensor in the drawing and submit a separate sectional drawing for the DTS sensor.
53	Vol 3, Section VI, B2 Technical Specification, 4.6 DISTRIBUTED TEMPERATURE SENSING (DTS) SYSTEM	The system shall be capable of measuring temperatures from -20°C to +150°C with a temperature resolution of less than 1°C. **Question:** Is -20 to 70°C （Normal） and upto 150°C （short period） specification cable acceptable ?	Your proposal is not acceptable. The system shall be capable of measuring temperatures from -20°C to +150°C with a temperature resolution of less than 1°C.
54	Vol 3, Section VI, B2 Technical Specification, 7.2 REQUIREMENTS ON CONTRACTOR	He shall execute a ground penetrating radar (GPR) survey at approved positions to determine the most suitable detailed final route and position for the trenches. **Question:** Since details of GPR is not mentioned, can we choose the GPR based on our experience?	Yes, the Contractor may select a suitable Ground Penetrating Radar (GPR) machine based on their experience, provided that the selected equipment meets the functional requirements outlined in Sub-Clause 7.2 of Volume 3.
55	Annex-1, Drawing for Substation Work General	Many drawings provided are not legible. Kindly provide the same clear and legible drawings.	The drawings attached to the hardcopy version of the Bidding Document are of better quality and more legible. Therefore, Bidders are recommended to obtain the printed version of the Bidding Document from the NEA head office in Kathmandu, as instructed in the Invitation to Bid.
56	Annex-1, Drawing for Substation Work, Drawing No. BIR-SS-E-1001	6.6kV cable is indicated in the SLD from power transformer, however same is not mentioned in the price schedule. Kindly confirm the requirement.	The 6.6kV cable indicated in the Single Line Diagram (SLD) from the power transformer is considered a minor facility. Therefore, please include its cost under Item A1.14 – All Miscellaneous Material for the completion of substation work.
57	Annex-1, Drawing for Substation Work, Drawing No. BIR-SS-E-1001	In 132kV GIS, future bays are also shown in between the present scope bays, we understand that arrangement can be changed to have all present bays at one side.	The future space shall generally be kept on both sides of the GIS row. The final layout arrangement will be determined during the detailed design stage, subject to the Employer's and Engineer's approval.
58	Annex-1, Drawing for Substation Work, Drawing No. BIR-SS-E-1001	Surge Arrestor are not indicated in the drawing, we understand that surge arrestor (AIS / GIS) for 132kV transformer bay, 132kV line bay, main bus and all bays for 11kV are not required. Kindly confirm.	The lightning arresters shall be installed at the end of underground cable lines, where is located at the connection point to the overhead lines.
59	Annex-1, Drawing for Substation Work, Drawing No. BIR-SS-E-1002	Kindly clarify the requirement of "PRP Managed Switch". We understand that PRP for relays and ethernet switches are not required.	Please provide the PRP Managed Switch as indicated in the drawing. The requirement for PRP functionality shall remain as specified in the Bidding Documents.



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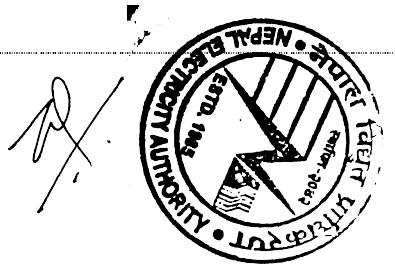
60	Annex-1, Drawing for Substation Work, Drawing No. BIR-SS-E-1005	Voltage grade of LT system is mentioned as 600V, we understand that equipment shall have voltage grade of 400V & 230V only.	The voltage rating of low-voltage cables shall be 600 V. While the actual operating voltages may be 400 V or 230 V, the specified voltage grade for all low-voltage cables shall remain 600 V, regardless of the operating voltage.
61	Volume III, Section VI.B1, B1-3, 1(2), 1 General	Any delay in Taking Over due to the impact of the monsoon season on construction activities shall not be accepted as a valid reason for extension of time. **Question:** Is there a possibility that construction may be suspended at the government's request? Is it considered the extension of time if the relevant government authorities issued the limit for construction activities for the monsoon?	If the government issues an order that suspends construction activities, and such suspension is not attributable to the Contractor, the Contractor may be entitled to an extension of time under Sub-Clause 8.4 of the General Conditions of Contract. This applies particularly when: · The suspension is ordered by the Employer or mandated by applicable laws or regulations; and · The Contractor is thereby prevented from carrying out the Works.
62	Volume III, Section VI.B1, B1-7, 4.3	**Question:** Is the DTS controller part of the monitoring system or a separate mechanism? Is it possible for the monitoring system and the DTS controller to be located in separate places? Does the Contractor prepare the monitor for the monitoring as well?	The DTS controller may be considered either as part of the overall monitoring system or as a standalone unit, depending on the Contractor's proposed system configuration. The Employer does not impose a fixed requirement in this regard. It is acceptable for the DTS controller and the monitoring system to be located in separate places, provided that the system functions reliably and meets the Employer's performance requirements. The Contractor shall be responsible for supplying and installing all necessary equipment, including the monitoring interface (e.g., monitor or HMI), as required to ensure proper operation and visualization of the DTS system. The detailed arrangement, including integration with SCADA or other systems, shall be finalized during the design stage in consultation with the Employer and the Engineer.
63	Volume III, Section VI.B1, B1-8, 4.4	If a utility is found to be damaged during the site works and it is unclear whether the damage was caused during the Project or was pre-existing, the Contractor shall still repair the utility at its own cost and notify the Employer and relevant utility authority immediately. **Question:**	The intent of the question is not entirely clear. However, if the repair works can be carried out without delay, it may be acceptable for the Contractor to first consult with the Employer and the relevant utility authority regarding any existing conditions identified on site prior to proceeding with the repair.



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		Is it acceptable to discuss with any existing situation found by the Contractor to the Employer and the relevant utility authority before repair?	
64	Volume III, Section VI.B2,B2-7-3, 7.2	The Contractor shall ensure that all excavation machinery and heavy equipment used for civil works on the road are of low-noise type. **Question:** Is it necessary to use silent piler for driving sheet pile?	If sheet pile driving is required for the construction work at the site, the use of a silent piler may be recommended. This matter can be reviewed and discussed during the design stage.
65	Volume III, Section VI.B2, B2-13-4, 13.2.4	**Question:** If the Calibration test of the test equipment is not carried out within 6 months, would it be possible to discuss this?	Please follow this requirement as per Sub-Clause 13.2.4. However, the words of "The Bidder/Contractor shall provide the test equipment…" in the first paragraph of this Sub-Clause will be amended to "The Contractor shall provide the test equipment…" in the subsequent **Addendum** to be issued by the Employer.
66	Annex-2, Drawing No. BIR-UG-E-0001	**Question:** Distance between each 132kV cable is distributed as 680mm in the drawing. If the cable manufacturer has calculated that the distance between cables can be shortened, is it acceptable to shorten it?	For bidding purposes, Bidders are requested to estimate the costs based on the specified cable spacing of 680 mm as shown in the drawing. However, if the cable manufacturer recommends a reduced spacing based on technical justification, such a proposal may be reviewed and considered during the detailed design stage, subject to the Engineer's approval.
67	Price Schedule, Sch-3_B1. Birauta-LILO B1.2.1	**Question:** Joint quantity is distributed as 6 sets. Does this mean that 1 jointing point for each cable? Is it possible to increase or decrease the joint point?	Yes, the quantity of 6 joints corresponds to one joint per cable circuit (i.e., 3 phases × 2 circuits = 6 sets). The number of joints may be subject to revision during the detailed design stage, based on the results of the site survey and final design. (The Employer prefer to the minimum number(s) of cable joint, i.e. 1 joint.)
68	Volume III, PART – 2B: SECTION VI.B1: and SECTION VI.B2: Chapter 1	2.1 132 kV Underground Transmission Line from New Birauta Substation to LILO Connection Point at Special Branch Tower Turnkey construction of an approximate 0.7km route length of a 132kV double circuit underground triplex type XLPE power cable line by laying one (1) no. of three-single-core triplex type XLPE cables per circuit (totaling 2 nos. of three-single-core Triplex cables) from the connection point at a special branch tower to Birauta substation shall be constructed as shown in Fig B1-3. 1.4.8 Design Criteria The standard ratings for 132 kV cable circuits are 160 MVA, laid in one cable per phase & sizes (800sqmm) based on project	Your understanding is incorrect. The two 132kV underground transmission circuits to be installed under this project are configured as a loop-in loop-out connection from the new branch tower to the Birauta substation. Therefore, the total transmission capacity is not simply the sum of two independent circuits (i.e., not 320 MVA).

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		scope requirements with appropriate bonding arrangement for sheaths. **Question:** Please confirm whether the required current rating for each conductor is 700 A. This means each three-phase circuit has a capacity of 160 MVA, and the total capacity of double circuit will be 320 MVA.	
69	Annex -2, Drawing No: BIR-UG-E-0005	**Question:** Please provide a clearer drawing, as the current version is difficult to read.	Please refer to the answer mentioned in the above item no. 55.
70	Volume III, PART – 2B: SECTION VI.B1: 2.3	The Scope of Work shall include two fiber optic underground cables (48 cores for each cable line) to be installed along with the 132 kV underground transmission line from Birauta substation to the special branch tower. **Question:** Please confirm whether the fiber optic cable can be used for the DTS (Distributed Temperature Sensing) system.	The fiber optic cable for the DTS (Distributed Temperature Sensing) system shall be provided separately and is not to be shared with other systems.
71	Price Schedule_Pokhara_B Transmission, Mandatory Spare Parts, Schedule No.6(B)	B1.1 132kV 3x800mm2 Triplex XLPE 300m **Question:** We recommend that the spare cable length be the same as the longest section length, i.e., 400 m.	The length of spare cable of item no. B1.1 in the Schedule No.6(B) shall be revised from 300m to 400m in the **Addendum No.1** to be issued by the Employer.
72	Annex -2, Drawing No: BIR-UG-E-0002	**Question:** Please provide the location of the manhole.	The exact location of manhole shall be designed by the Contractor subject to approval of the Employer and Engineer during the design stage.
73	Price Schedule, Pokhara_B Transmission Schedule No. 3(B1): Supply of Plant(Off-Site)	B1.6 Earth Continuity Wire (ECW) (1kV XLPE 185mm2) **Question:** We also recommend using a conductor size of 240 mm² to meet the short-circuit capacity requirement of 40 kA for 1 second.	1kV XLPE 185mm2 will be corrected to 1kV XLPE 240mm2. The text of "1kV XLPE 185mm2" in the item no. B1.6 in the Schedule No.3(B1) shall be amended to "1kV XLPE 240mm2" in the **Addendum No.1** to be issued by the Employer.
74	Volume III, PART – 2B: SECTION VI.B2, 4.3	The terminations for GIS shall be either plug in type (dry type) or conventional (wet) type and as per project requirements and as applicable at site. The GIS terminations shall comply with IEC 62271-209 (IEC 60859) & IEC 60840.	The 132kV GIS shall be supplied and installed by the same Contractor under this project. Accordingly, the Contractor shall be responsible for coordinating the design and interface between the GIS and the cable sealing ends. The type of GIS termination—whether fluid-filled or dry-type—will be selected by the Contractor

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		Question: Please provide the information that which type of GIS termination (flued filled type: IEC62271-209 Fig.2,3 or dry type: IEC62271-209 Fig4,5) is required.	based on compatibility and project requirements, and shall be subject to the Engineer's review and approval during the detailed design stage.
75	Volume III, PART – 2B: SECTION VI.B1: CHAPTER 4	The DTS controller shall be set up at Birauta substation. **Question:** Please clarify whether the DTS system shall be connected to the SCADA network at either Birauta substation or at another substation. If SCADA-DTS connection is required, please also indicate what alarm information should be provided from the DTS system, e.g., high temperature alarm, DTS system alarm.	The DTS (Distributed Temperature Sensing) system is not required to be connected to the SCADA system under this Contract. Therefore, no specific alarm signals (e.g., high temperature alarm or DTS system fault alarm) are required to be integrated into the SCADA network. However, the DTS system shall be equipped with its own local monitoring interface (e.g., HMI or dedicated software) to allow real-time temperature monitoring and alarm visualization.
76		The tender document indicates that the Vector Group of 132/11kV transformer is YNyn0 in the Birauta substation. Please confirm whether the tertiary windings are needed.	Tertiary winding is not required. The transformer shall be designed and configured to operate and fully comply with all contractual requirements without a tertiary winding.
77		The tender document does not mention the 132kV and 11kV lightning arresters in the Birauta substation. Please confirm whether lightning arresters are needed for the transformer bay and line bay of 132kV and 11kV system. If they are needed, please provide the relevant parameter requirements and updated the Price Schedule.	Please refer to the item no. 58 in the above.
78		Please provide the creepage distance for each equipment in the Birauta substation.	At Birauta Substation, all switchgear equipment is GIS type. Any exposed insulator is not used.
79	Vol 2, Section VI.A1, 4.1.1 p A1-7; Vol 2, APPENDIX – A1, 1.1 p AA1-1	The tender document Volume 2 of 4, 4.1.1 states that the rated current of the busbar of the 132kV GIS is 2000A, while the technical parameter table shows 3150A. Please clarify the rated current of the busbar of the 132kV GIS.	132kV busbar rated current shall be 2000A. The "3150 A" shown in the technical particulars will be corrected to "2000 A" in the subsequent **Addendum** to be issued by the Employer.
80	Vol 2, Section VI.A1, 4.1.1 p A1-7; Vol 2, APPENDIX – A1, 1.1 p AA1-2	In the tender document Volume 2 of 4, 4.1.1 states that the rated current of the line bay circuit breaker of the 132kV GIS is 1250A, while the technical parameter table shows 2000A. Please clarify the rated current of the line bay circuit breaker of the 132kV GIS.	The rated current of132kV GIS for line bay shall be 1250 A. The "2000 A" in technical particular will be corrected to 1250A in the subsequent **Addendum** to be issued by the Employer.
81	Vol 2, Section VI.A1, 4.1.1 p A1-9; Vol 2, APPENDIX – A1, 1.2 p AA1-9	In the tender document Volume 2 of 4, 4.1.2 states that the rated current of the busbar of the 12kV switchgear is 2500A, while the technical parameter table shows 3150A. Please clarify the rated current of the busbar of the 12kV switch cabinet.	The rated current of 12kV switchgear shall be 2,500 A. The "3150A" or "3000A" in technical particular will be corrected to 2500 A in the subsequent **Addendum** to be issued by the Employer.

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82		Please provide the manufacturer model, version number, contract number, production date of the existing line differential/distance protection relay at Lekhnath substation.	Please refer to the item no. 35 above.
83		Please provide the manufacturer model, version number, contract number, production date of the existing line differential/distance protection relay at Syangja substation.	Please refer to the item no. 35 above.
84	Vol 2, Section VI.A1, 2.1 p A1-5; Vol 2, Section VI.A1, 4.2 p A2-4-3;	Regarding the description of the protection class of outdoor equipment, there is inconsistency in Volume 2. In Section VI, A1, 2.1, it states that the protection class of outdoor equipment shall be IP62. However, in Section VI, A2,4.2, it states that the protection class of the outdoor local control cubicles should be IP54 with sun/rain shades of adequate size otherwise stated in other part of the specification. Since the two explanations have different requirements, please the owner clarify which requirement should be followed.	Please consider as follows, 1) For outdoor cubicle such as transformer local cubicle etc. the IP level shall be 54 with sun/rain shade. 2) For other facilities which are not cubicles, IP level shall be 62 such as transformer accessory as temperature meter, etc., otherwise stated in other part of the specification.
85		In the bidding document instructions, the architectural design must comply with the International Building Code (IBC). According to the relevant requirements of the IBC, each floor of the building should be provided with no less than two means of egress. However, the cable mezzanine level of the GIS building in the attached drawings of the bidding document is only equipped with one staircase, which effectively serves as a single means of egress and does not comply with the IBC requirements. Please confirm whether the bid quotation should be based on the drawings attached to the bidding document, or if the layout of the GIS building can be adjusted according to the code requirements.	The drawings attached to the bidding documents are for reference purposes only. Therefore, the Bidder shall be responsible for adjusting the layout of the GIS building in accordance with their own design, while ensuring compliance with applicable international codes and standards, including the International Building Code (IBC), as well as the Nepal National Building Code.
86	Vol 2, Section VI.A2, CHAPTER 11, 11.2.3; p A2-11-2	For civil and building works, the standards of several countries are provided. The theoretical systems and calculation methods of different standards are distinct. May I ask which standards will be followed for structure design in this project?	In principle, the design and execution of civil and building works shall be based on American standards. However, as specified in Clause 11.2.3, the Bidder may also comply with other international standards, such as British Standards, provided that they meet the project requirements and are acceptable to the Employer and Engineer.
87	Price Schedule_Pokhara_A Substation Sch-4(S), A2.2/A2.3	Please clearly specify the specific contents of the Civil & Building Works at the opposite station.	It is anticipated that there is no major civil & building works at Lekhnath and Syangja substations except necessary works required for installation of necessary panels.
88		The bidding documents do not mention the ventilation measures for the 132KV GIS room. Please clarify whether a mechanical	As per bidding document Vol A2 Clause 12.1.2 in page A2-12-1, the air conditioning shall be provided in 132kV GIS room.

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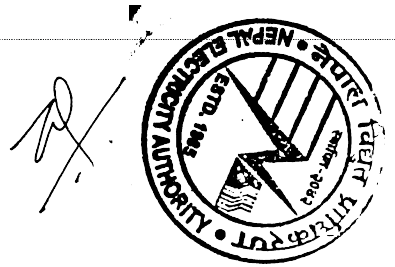
89	Vol 2, Section VI.A2, CHAPTER 12, 12.1.2; p A2-12-1	exhaust system with a ventilation rate of 6 times per hour is sufficient for this room? According to the bidding documents: There shall be two sets of 100% capacity units for each of the rooms. One is for duty and other one is to stand by to ensure an uninterrupted service during 24 hours. The automatic changeover facilities shall be provided to stand-by units. Can backup air conditioning not be installed in the guard house and flats of staff quarter buildings, both of which are personnel use rooms without electrical equipment?	Backup air conditioning units are not required for rooms intended for personnel use only, such as the guard house and staff quarters, since these areas do not contain critical electrical equipment.
90		There are no requirements for fire hydrant systems in the bidding documents. Does this project require the installation of internal and external fire hydrant systems?	As per the requirement in clause 12.2 in page A2-12-8 Part 2A, portable extinguisher shall be provided in each room in substation. For the outside power transformer, a sprinkler type firefighting system is required in Clause 12.6 in page A2-12-39 part2A.
91	Transmission Line	For the special branch tower, it will Π-connect to the existing transmission line. Kindly provide the Tower Schedule, Plan & Profile Drawings, Hardware & Fitting Drawings, and other related drawings with calculation report for the necessary design requirements. Kindly provide the cable type for the existing transmission line.	For the special branch tower, only the ground plan and basic configuration drawing are provided in Annex-2 of the Bidding Documents (Drawings BIR-OH-E-0001 and BIR-OH-E-0002). Detailed design documents such as Tower Schedule, Plan & Profile drawings, hardware and fitting drawings, and calculation reports are not included in the bidding documents and shall be prepared by the Contractor during the detailed design stage in accordance with the technical requirements specified in Volume-3 (Chapter 8: Tower and Chapter 9: Line Conductors and Accessories). These documents will be subject to review and approval by the Employer and the Engineer.
92	Transmission Line	Kindly clarify which kind of conductor and design weather conditions for the existing transmission Line.	Existing conductors is applied ACSR DUCK and the design conditions are mentioned on Chapter 15 Technical Schedule in Section VI, B2: Technical Specification.
93	Transmission Line	For the better estimate the quantities for each material, kindly provide the kmz file or angle point coordinates for the Underground Cable Line Route.	The transmission line route is relatively simple and approximately 0.7 km in length. Therefore, a KMZ file or angle point coordinates will not be provided to the Bidders.
94	Transmission Line	According to the annex drawing provided in the bidding documents, it seems that the underground cable will be crossed with water pipe. Kindly clarify if there have other underground pipe will be crossed with the underground cable in the proposal line route?	The cable route drawings provided in the bidding documents are solely a tender purpose only. Therefor the detailed route survey shall be carried out and thereafter decided the final transmission cable line by the Contractor during contract stage.



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95	Transmission Line	As per our understanding, there are 1-ACSR Duck for each phase overhead line. The subcontractor shall be responsible for the remove, material purchase and install the conductor with necessary accessories from the existing #158 tower to existing #160 tower. Kindly confirm it.	Existing ACSR DUCK conductors shall not be removed and shall be re-used. As for accessories nearby special branch tower, new ones shall be installed.
96	Transmission Line	According to the Volume Drawing in the bidding document, the typical cross section drawing of cable is provided in Drawing No. BIR-UG-E-000. Kindly clarify if the 132kV underground cable laying method can be direct buried with HDPE duct along the route? Or the client requires to use cable trench or cable duct bank?	The 132kV underground cables are installed in the underground cable HDPE ducts constructed by the Contractor.
97	Distribution Line	For the better estimate the quantities for each material, kindly provide the kmz file or angle point coordinates for the Underground Cable Line Route and Overhead Line Route.	The KMZ data will be made available on the NEA website. But please be informed that the cable route is just for your reference only. There are some MV branch lines and distribution transformers along the route, the Contractor must also consider their connection.
98	Distribution Line	Kindly clarify the scope of '3-Core, 400 mm^2, 11 kV, XLPE Armored Aluminum cable' and '3-Core, 150 mm2, 11 kV, XLPE Armored Aluminum cable' will be used for which feeder line?	3-Core, 400 mm^2, 11 kV, XLPE Armored Aluminum cable shall be used for main line of the distribution line, and 3-Core, 150 mm^2, 11 kV, XLPE Armored Aluminum cable shall be used for the branch line.
99	Distribution Line	Kindly clarify the scope of 'LT XLPE Armored 3.5 Core, 300 mm^2 Aluminum Cable' and 'LT XLPE Armored 3.5 Core, 185 mm2 Aluminum Cable' will be used for which upgrade LV line? Please confirm the removal work for the existing line will be included in the subcontractor's work scope or not?	The removal of the existing lines and poles is not included in the scope of work. These removal activities will be carried out by the Employer.
100	Distribution Line	According to the Volume IV of IV.C.2, Technical Specification, 2.4.1: 'Single Core. Three and half (3.5) Core and Four (4) Core Cross linked Polyethylene (XLPE) insulated, FRLS PVC sheathed, armored power cables shall be used for LT underground distribution network'. However, in the Price Schedule, Sch-3_C1. Underground Line, only LT XLPE Armored 3.5 Core were listed. Kindly clarify if the Single Core and Four (4) Core Underground Cable will be used in distribution line work and provide the quantities of different Underground Cable. Can we estimate and quote as per the Price Schedule provided in the bidding documents?	Only 3.5-core XLPE armored cable shall be used for the LV underground distribution line. Therefore, Bidders are requested to estimate and quote based on the Price Schedule provided in the Bidding Document.

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101	Distribution Line	According to the Volume IV of IV.C.2, Technical Specification, 2.5.1 General Requirements: the different size cable will be used for Customer connection. However, by checking the Price Schedule, Sch-3_C1. Underground Line, the quantity of service cable was not provided. Kindly clarify how many meters service cable will be considered for each customer or provided the quantity of service cable for bidder quotation.	Please refer to Vol.4C-1 Scope of Work. A service cable length of 50 meters per customer shall be considered for estimation purposes.
102	Distribution Line	Kindly clarify if the material and install of single-phase meter and three phase meters for customers will be included in the work scope?	Installation of metering equipment isn't included in the scope of work. The meter seal will be provided by the Employer.
103	Distribution Line	According to our understanding, the customer list will be provided by employer during detail design process and service cable will be connect to them from LT underground cable. In the bidding process, the final customers which need to be connected still not finalized. Kindly confirm it.	The Employer will provide the Contractor with information and criteria about the areas where power lines are to be undergrounded. The Contractor shall investigate and compile the necessary information regarding customer connections.
104	Distribution Line	According to the Volume IV of IV.C.2, Technical Specification, 6.2.1: Type of LT Panel, Type A, B, C, D1, D2, D3 and E are provided in the bidding documents. But in the Price Schedule, Sch-3_C1. Underground Line, C1.5, only Type D1, D2, D3 and E are mentioned. Kindly clarify if we can quote as per the Price Schedule?	Types of LT Panel D1, D2, D3, E shall be used in the project. Type A, B, and C aren't required in the project. Therefore, Bidders may estimate and quote based on the Price Schedule.
105	Distribution Line	In the Price Schedule, the steel pole is 11m and 13m length. However, by comparing the Technical Data Sheet provided in the Volume IV of IV, the length of steel pole is 9m and 11m. Kindly confirm if we can follow the type of steel pole provided in the Price Schedule.	Your understanding is correct. Generally, 11m steel pole is used for MV distribution line, and 9m steel pole is used for LV distribution line. In the project, MV line network is constructed, so 11m steel poles shall be used. But there are locations where two MV distribution lines must be installed in parallel, and clearance from trees and telecommunication lines also needs to be considered; therefore, 13-meter utility poles are planned to be used.