

POWR GRID BANGLADESH PLC Clarification No.1, Date January 13, 2025 Substation at Peka and associated single double circuit 400KV/230KV/132KV LLO Lines on turnkey basis(Package-1) Design, Supply, Installation, Testing & Commissioning of 400/230/132 KV AIS Substation at Peka and associated single double circuit 400KV/230KV/132KV LLO Lines on turnkey basis(Package-1) (CONTRACT NO: POWERGRID/ADB400KVPEKAUPTSIREP/PACKAGE-1/Re-Tender, Date: 03.12.2024) Pre-bid meeting was held on 28th December, 2024 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding Document. Some queries were received from the prospective Bidders regarding the Bidding Documents . Clarifications on the above mentioned queries are given below, which will form part of the bidding documents.						
Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
1	Volume 1	Section 4 - Bidding Forms Letter of Technical Bid- Point g	Our firm, Joint Venture partners, our respective direct and indirect shareholders, directors, key officers, key personnel, associates, parent company, affiliates or subsidiaries, including any Subcontractors, consultants, subcontractors, manufacturers, service providers or Suppliers for any part of the contract, are not subject to, or not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Asian Development Bank or a debarment imposed by the Asian Development Bank in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the Asian Development Bank and other development banks.	Our Company listed with stock exchange. Therefore, it is not possible to give the similar declaration for Point g in letter of Technical Bid for our direct and indirect shareholders. We request to accept the following statement, "Our firm, Joint Venture partners, our respective direct and indirect shareholders, directors, key officers, key personnel, associates, parent company, affiliates or subsidiaries, including any Subcontractors, consultants, subcontractors, manufacturers, service providers or Suppliers for any part of the contract, are not subject to, or not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Asian Development Bank or a debarment imposed by the Asian Development Bank in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the Asian Development Bank and other development banks."	It is clarified that the reference to 'direct and indirect shareholders' in the clause does not pertain to any retail shareholders owning small quantities. The reference is to any shareholder who has a significant stake and are able to influence the decision-making process. No change in the Bid Document is required.	N
2	Volume 1	Section 4 - Bidding Forms Letter of Technical Bid- Point h	Our firm, Joint Venture partners, our respective direct and indirect shareholders, directors, key officers, key personnel, associates, parent company, affiliates or subsidiaries, including any Subcontractors, consultants, subcontractors, manufacturers, service providers or Suppliers for any part of the contract, are not under ongoing investigation and/or sanctions proceedings by the Asian Development Bank or any multilateral development bank.	Our Company listed with stock exchange. Therefore, it is not possible to give the similar declaration mention for Point h in letter of Technical Bid for our direct and indirect shareholders. We request to accept the following statement, "Our firm, Joint Venture partners, our respective direct and indirect shareholders, directors, key officers, key personnel, associates, parent company, affiliates or subsidiaries, including any Subcontractors, consultants, subcontractors, manufacturers, service providers or Suppliers for any part of the contract, are not under ongoing investigation and/or sanctions proceedings by the Asian Development Bank or any multilateral development bank."	It is clarified that the reference to 'direct and indirect shareholders' in the clause does not pertain to any retail shareholders owning small quantities. The reference is to any shareholder who has significant stake and are able to influence the decision-making process. No change in the Bid Document is required.	N
3	Volume 1	Section 4 - Bidding Forms Letter of Technical Bid- Point i	Our firm, Joint Venture partners, our respective direct and indirect shareholders, directors, key officers, key personnel, associates, parent company, affiliates or subsidiaries, including any Subcontractors, consultants, subcontractors, manufacturers, service providers or Suppliers for any part of the Contract, are not temporarily suspended, debarred, declared ineligible, or subject to any national and/or international sanctions by any country, any international organization, any multilateral development bank and other donor agency. If so temporarily suspended, debarred, declared ineligible, or subject to any national and/or international sanctions by any country, any international organization, any multilateral development bank and other donor agency, please state details (as applicable to each Joint Venture partner, their respective direct or indirect shareholders, directors, key officers, key personnel, associate, parent company, affiliate, subsidiaries, Subcontractors, consultants, service providers and/or Suppliers);	Our Company listed with stock exchange. Therefore, it is not possible to give the similar declaration mention for Point i in letter of Technical Bid for our direct and indirect shareholders. We request to accept the following statement, "Our firm, Joint Venture partners, our respective direct and indirect shareholders, directors, key officers, key personnel, associates, parent company, affiliates or subsidiaries, including any Subcontractors, consultants, subcontractors, manufacturers, service providers or Suppliers for any part of the Contract, are not temporarily suspended, debarred, declared ineligible, or subject to any national and/or international sanctions by any country, any international organization, any multilateral development bank and other donor agency. If so temporarily suspended, debarred, declared ineligible, or subject to any national and/or international sanctions by any country, any international organization, any multilateral development bank and other donor agency, please state details (as applicable to each Joint Venture partner, their respective direct or indirect shareholders, directors, key officers, key personnel, associate, parent company, affiliate, subsidiaries, Subcontractors, consultants, service providers and/or Suppliers);"	It is clarified that the reference to 'direct and indirect shareholders' in the clause does not pertain to any retail shareholders owning small quantities. The reference is to any shareholder who has significant stake and are able to influence the decision-making process. No change in the Bid Document is required.	N





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POWR GRID BANGLADESH PLC Clarification No.1, Date January 13, 2025 Design, Supply, Installation, Testing & Commissioning of 400/230/132 KV AIS Substation at Pekua and associated single /double circuit 400KV/230KV/132KV LULO Lines on turnkey basis(Package-1) (CONTRACT NO: POWERGRID/ADB/400KV/PEKUA/PTSIREP/PACKAGE-1/Re-Tender, Date: 03.12.2024) Pre-bid meeting was held on 26th December, 2024 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding document. Some queries were received from the prospective Bidders regarding the Bidding Documents. Clarifications on the above mentioned queries are given below, which will form part of the bidding documents.						
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4	Volume 1	Section 4 - Bidding Forms Letter of Technical Bid- Point k	Our firm, Joint Venture partners, our respective direct and indirect shareholders, directors, key officers, key personnel, associates, affiliates or subsidiaries, including any Subcontractors, consultants, subcontractors, manufacturers, service providers or Suppliers, can make and receive electronic fund transfer payments through the international banking system or otherwise discharge the Employer's obligation upon initiation of wire transfer.	Our Company listed with stock exchange. Therefore, it is not possible to give the similar declaration for Point k in letter of Technical Bid for our direct and indirect shareholders. We request to accept the following statement. * Our firm, Joint Venture partners, our respective direct and indirect shareholders, directors, key officers, key personnel, associates, affiliates or subsidiaries, including any Subcontractors, consultants, subcontractors, manufacturers, service providers or Suppliers, can make and receive electronic fund transfer payments through the international banking system or otherwise discharge the Employer's obligation upon initiation of wire transfer.*	It is clarified that the reference to 'direct and indirect shareholders' in the clause does not pertain to any retail shareholders owning small quantities. The reference is to any shareholder who has significant stake and are able to influence the decision-making process. No change in the Bid Document is required.	N
5	Volume 1	Section 3: Evaluation and Qualification Criteria 2.6 Subcontractors - Substitution related items Disc Insulator	Manufacturer's proposed factory shall have at least ten (10) years of manufacturing experience prior to the date of bid submission for similar or higher rating post insulator and/or disc insulator with minimum delivery of at least one hundred (100) similar to proposed type insulator or higher rating insulator over the last ten (10) years.	We understand the referred clause is indicating Qualification requirement is for Disc insulators for substitution only. Please confirm.	Your understanding is correct.	N
6	Volume 1	Section 9: Contract Forms Appendix 2 - Price Adjustment		Existing Price Adjustment clause is applicable for Substation Items - Transformer & Transmission Line Items - ACSR Conductor, Tower & Poles Considering the high volatility in Commodities, we request to allow Price adjustment for lattice structures for substation part (Gantry, Beam and Support Structures) also.	It shall be as per bidding document. Please follow the bid document.	N
7	Volume 1	Section 1: ITB 18.6 (b), Section 2: ITB 18.6 & Section 9: Appendix 2: Price Adjustment/ Condition no (f)	In the case of Adjustable Price, ... A Bid submitted with a fixed price quotation will be treated as nonresponsive and be rejected. subject to clarification with the Bidder. The prices quoted by the Bidder shall be: Adjustable If no data is entered for any item in the above table, the price adjustment does not apply to this item.	As per clause ITB 18.6, the bids submitted with the firm price shall be rejected. However as per Appendix-2, if there is no data shared for price adjustment, the price adjustment does not apply to that item, hence we understand that the same will be treated as firm. Please clarify.	Your understanding is correct. If no data entered against all items, the quoted price shall be considered as firm and the bid will be rejected.	N
8	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1D.3	33kV Inductive Voltage Transformer	Please provide core wise details to be considered for 33kV Inductive Voltage Transformer.	Please see the scope of work, schedule E (GTP) and detailed technical specification (volume-2) for details of 33kV IVT.	N
9	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1F	Control, Protection, SAS and Metering	CRP panels for Mid breaker bay (400kV Tie Bay) is missing in price schedule. Request you to kindly check and appropriate add in Price Schedule.	Control panel with Mimic and BCU for full diameter including mid breaker and future breaker shall be supplied as per schedule A.	N






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10	Volume 1	Section 4 Price Schedules Schedule 4D, S.No: 1K.3. i)	Three storied Operation Room	We presume that, 33kV CRP panels, DFOR panels, Tariff Metering panels, 48V Battery, 48V Chargers, 48V DCDBs & SAS panels are to be placed in Control Building. Please confirm.	Confirmed. As per drawings provided in volume-2, scope of work, price schedule as well as technical specification for this project. Detail design will be finalized during execution stage upon employer's approval.	N
11	Volume 1	Section 4 Price Schedules Schedule 4D, S.No: 1K.3. ii)	400kV switchyard panel Room (SPR)	We understand that two no. of SPR is to be considered for 400kV Switchyard (as depicted in the layout) & one no. of SPR is to be considered for 132kV Switchyard (total 2nos of SPR). Please confirm if our understanding is correct.	Two no. of SPR is to be considered for 400kV Switchyard & one no. of SPR is to be considered for 132kV Switchyard (total 2nos of SPR).	N
12	Volume 1	Section 4 Price Schedules Schedule 4D, S.No: 1K.3. ii & iii)	400kV & 132kV switchyard panel Room (SPR)	Kindly furnish layout for 400kV (2) and 132 kV (1) SPR indicating which bay's/feeder's panel will be placed in each SPR.	Basic drawing of SPR are provided in volume-2 and arrangements of bays in the SPR shall be finalized during execution stage based on approved layout and SLD.	N
13	Volume 1	Section 4 Price Schedules Schedule 4D, S.No: 1K.3. ii)	400kV switchyard panel Room (SPR)	We presume that, 400kV CRP panels, RTCC panels, 110V Battery, 110V Chargers, 110V DCDBs are to be placed in 400kV SPR rooms. Please confirm.	Your understanding is correct.	N
14	Volume 1	Section 4 Price Schedules Schedule 4D, S.No: 1K.3. iii)	132kV switchyard panel Room (SPR)	We presume that, 132kV CRP panels, 110V Battery, 110V Chargers and 110V DCDBs are to be placed in 132kV SPR rooms. Please confirm.	Your understanding is correct.	N
15	Volume 1	Section 3 : 2.6 Subcontractors/Conductor (ACSR Finch) Section 6 : Employer's Requirements / Type Test of Conductor (For Transmission Line)	Section 3 : 2.6 Subcontractors/Conductor (ACSR Finch) Type test report for the offered type Conductor. Section 6 : Type Test Reports from Independent internationally reputed testing laboratory/manufacturer's own laboratory for Conductor of all offered types (similar or higher size).	As Per Section 3 Evaluation and Qualification Criteria Conductor (ACSR Finch) it is mentioned that Type test report for the offered type Conductor is required. However, in Section 6 : Employer's Requirements it is mentioned that Type Test Reports from Independent internationally reputed testing laboratory/manufacturer's own laboratory for Conductor of all offered types (similar or higher size) is acceptable. Please confirm the requirement.	Type Test Reports from Independent internationally reputed testing laboratory/manufacturer's own laboratory for Conductors of all offered types is acceptable.	N
16	Volume 1	Section 4 Price Schedules Schedule 4D, S.No: 1K.2.xvi)*	Surface Drain Quantity - 1350mtr	The quantity of surface drain indicated in the price schedule is 1350m, however type of drain is not indicated, i.e RCC or brick masonry. The depth of the drain is subject to the number of water discharge points. We request you to please indicate the numbers of discharge points (outlet) with their location. We also request to provide with the reference sectional drawing of the outer drain.	Structural component/system of surface drain and selection of outlet to be decided at execution stage based on surface runoff calculation. As EPC, the bidder should assess based on site condition and contract provision.	N
17	Volume 1	Section 4 Price Schedules Schedule 4D, S.No: 1K.2.xvii)*	Water Treatment Plant	We understand that the water treatment plant is RO only and required for drinking water only. Please confirm if our understanding is correct.	Confirmed.	N
18	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1A.6	420kV Current Transformer	Please provide Secondary Parameter details like Knee Point Voltage(V _k), Magnetizing Current(I _m max), Resistance(R _{ct}) to be considered for this Current Transformer.	Please see the scope of work, schedule E (GTP) and detailed technical specification (volume-2) for details of the same. In addition, some of the parameters will be provided by manufacturer during approval stage.	N

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POWER GRID BANGLADESH PLC						
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(CONTRACT NO: POWERGRID/ADB/400KV/PEKUA/PTSIREP/PACKAGE-1/Re-Tender, Date: 03.12.2024)						
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19	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1B.8	245KV Current Transformer for Transformer Bay	Please provide Secondary Parameter details like Knee Point Voltage(Vk), Magnetizing Current(max), Resistance(Rct) to be considered for this Current Transformer.	Please see the scope of work, schedule E (GTP) and detailed technical specification (volume-2) for details of the same. In addition, some of the parameters will be provided by manufacturer during approval stage.	N
20	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1B.9	245KV Current Transformer for line bay	Please provide Secondary Parameter details like Knee Point Voltage(Vk), Magnetizing Current(max), Resistance(Rct) to be considered for this Current Transformer.	Please see the scope of work, schedule E (GTP) and detailed technical specification (volume-2) for details of the same. In addition, some of the parameters will be provided by manufacturer during approval stage.	N
21	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1B.10	245KV Current Transformer bus coupler bay	Please provide Secondary Parameter details like Knee Point Voltage(Vk), Magnetizing Current(max), Resistance(Rct) to be considered for this Current Transformer.	Please see the scope of work, schedule E (GTP) and detailed technical specification (volume-2) for details of the same. In addition, some of the parameters will be provided by manufacturer during approval stage.	N
22	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1C.8	145KV Current Transformer for Transformer Bay	Please provide Secondary Parameter details like Knee Point Voltage(Vk), Magnetizing Current(max), Resistance(Rct) to be considered for this Current Transformer.	Please see the scope of work, schedule E (GTP) and detailed technical specification (volume-2) for details of the same. In addition, some of the parameters will be provided by manufacturer during approval stage.	N
23	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1C.9	145KV Current Transformer for line bay	Please provide Secondary Parameter details like Knee Point Voltage(Vk), Magnetizing Current(max), Resistance(Rct) to be considered for this Current Transformer.	Please see the scope of work, schedule E (GTP) and detailed technical specification (volume-2) for details of the same. In addition, some of the parameters will be provided by manufacturer during approval stage.	N
24	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1C.10	145KV Current Transformer bus coupler bay	Please provide Secondary Parameter details like Knee Point Voltage(Vk), Magnetizing Current(max), Resistance(Rct) to be considered for this Current Transformer.	Please see the scope of work, schedule E (GTP) and detailed technical specification (volume-2) for details of the same. In addition, some of the parameters will be provided by manufacturer during approval stage.	N
25	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1L.1	Emergency AC Aux. power supply for Buildings	We presume there is no DG set requirement and hence, no Emergency AC Aux. power supply is required in Main Control Room Building and Local switchyard panel Room (SPRs). Please confirm.	As per Tender. Particular requirements under this project scope shall be as per Schedule-A (scope of work) and Schedule-B (price schedule). For more details, please go through the technical specifications/requirements stated in the bid documents properly.	N
26	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1L.2	Emergency AC Aux. power supply for Switchyard	We presume there is no DG set requirement and hence, no Emergency AC Aux. power supply is required in Switchyard and Street Light. Please confirm.	As per Tender. Particular requirements under this project scope shall be as per Schedule-A (scope of work) and Schedule-B (price schedule). For more details, please go through the technical specifications/requirements stated in the bid documents properly.	N





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27	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1L.3	Solar system (40KW solar panel) for substation lighting.	Kindly provide detailed technical specifications, Data sheets, location to be installed and power distribution schemes to be considered.	As per tender. Please follow the price schedule and scope of work along with the technical specifications/requirements stated in the bid documents properly. Location preferably shall be on the roof of each building. But Detail design will be finalized during execution stage upon employer's approval.	N
28	Volume 1	Section 4 Price Schedules Schedule 4D, S.No: 1K.3.i)	Three storied Operation Room (CRB)	Please provide floor wise rooms details to be considered for Main Control Room Building.	Please follow the bidding document and drawings.	N
29	Volume 1	General	Three storied Operation Room (CRB)	Kindly specify the location of battery room in the Control room for 220KV.	As per tender. Please follow the drawings (in volume-2) and scope of work along with the technical specifications/requirements stated in the bid documents properly. Detail design will be finalized during execution stage upon employer's approval.	N
30	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1J.1, a), iii)	110V DC Distribution panel, MCC type	What is MCC type means. Please clarify.	MCC=Motor Control Center/Cabinet It's a type of panel.	N
31	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1A.1, 1A.2, 1A.12(c)(i)	Quantity of Equipment Support Structure for 420KV Circuit Breaker	The quantity of Equipment Support Structure for 400KV Circuit Breaker are not matching with the quantities for 400KV Circuit Breaker	The quantity of Equipment Support Structure for 400KV Circuit Breaker have been modified to match with the quantities for 400KV Circuit Breaker. Relevant price schedule have been modified accordingly. Necessary addendum (Addendum-01) is attached with the clarifications.	Y
32	Volume 1	Section 4 Price Schedules Schedule 1D, S.No: 1B1, 1B2, 1B14(c)(i)	Quantity of Equipment Support Structure for 245KV Circuit Breaker	The quantity of Equipment Support Structure for 245KV Circuit Breaker are not matching with the quantities for 245KV Circuit Breaker	The quantity of Equipment Support Structure for 245KV Circuit Breaker are matched with the quantities for 245KV Circuit Breaker. Quantity is 8 nos.	N
33	Volume 1	Section 6: Employer's Requirements. 1. Scope of Supply of Plant and Services	Type test certificates of Power Transformer of similar or higher specifications (voltage, short circuit rating & capacity) required by the tender shall be submitted as per relevant IEC/equivalent standard and shall be issued by STL member testing laboratories or from manufacturer's own testing laboratory. Test carried out at manufacturer's own testing laboratory must have been witnessed and certified by a representative from STL member testing laboratories.	Please clarify whether the test carried out in an independent laboratory and have been witnessed and certified by a representative from STL member testing laboratories is acceptable	Tests carried out in an independent laboratory and have been witnessed and certified by a representative from STL member testing laboratories is also acceptable.	N

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34	Volume 1	Section 6: Employer's Requirements, 1. Scope of Supply of Plant and Services	Type test certificates of Shunt reactor, Circuit Breaker, Instrument Transformer (CT/VT), Disconnect switch (DS) and Lightning Arrester shall be issued by STL member testing laboratories.	Please clarify whether the test carried out in an independent laboratory and have been witnessed and certified by a representative from STL member testing laboratories or qualified third party is acceptable	Please be noted that supply of Shunt Reactor will not be needed during execution, therefore Shunt Reactor will not be evaluated. Type test certificates of Circuit Breaker, Instrument Transformer (CT/VT), Disconnect switch (DS) and Lightning Arrester shall be issued by STL member testing laboratories.	N
35	Volume 1	Section 3: Evaluation and Qualification Criteria, 2.6 Subcontractors	400/230/33 kV Power Transformer	We propose following Qualification Criteria for Power Transformer Manufacturer for your kind consideration - Manufacturer's proposed factory shall have at least <u>fifteen (15)</u> years of manufacturing experience prior to the date of bid submission of 380 kV or higher voltage rating power transformer with minimum delivery of at least ten (10) nos. of similar or higher rating (kV, MVA) three phase/3-single phase Power transformer over the last ten (10) years outside the manufacturer's own country or in Bangladesh.	Please follow the bidding document.	N
36	Volume 1	Section 3: Evaluation and Qualification Criteria, 2.6 Subcontractors	230/132/33 kV Power Transformer	We propose following Qualification Criteria for Power Transformer Manufacturer for your kind consideration - Manufacturer's proposed factory shall have at least <u>fifteen (15)</u> years of manufacturing experience prior to the date of bid submission of 220 kV or higher voltage rating power transformer with minimum delivery of at least ten (10) nos. of similar or higher rating (kV, MVA) three phase Power transformer over the last ten (10) years outside the manufacturer's own country or in Bangladesh.	Please follow the bidding document.	N
37	Volume 1	SOC, Clause 14	Taxes, Duties, Sales Tax/VAT, VDS, AIT on Schedule 1	We understand that price for items under price schedule No.1 are to be quoted exclusive of customs duties, VAT, AIT and other relevant duties and taxes	Your understanding is correct.	N
38	Volume 1	SOC, Clause 14	Sales Tax/VAT on Schedule 2, 3 and 4	Please confirm whether VAT/Sales Tax will be applicable on Schedule 2,3,4.	It shall be as per bidding document. Please follow the bidding document.	N
39	Volume 1	SOC, Clause 14	VDS on Schedule 2, 3 and 4	Please confirm whether VDS will not be applicable on Schedule 2,3,4.	VDS shall be paid by the employer.	N







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40	Volume 1	Section 9: Contract Forms, Appendix 1: Terms and Procedures of Payment	Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad	We request you to accept following payment terms of payment - Ten percent (10%) of the total CIP amount as an advance payment against receipt of invoice and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer. The advance payment security may be reduced in proportion to the value of the plant and mandatory spare parts delivered to the site, as evidenced by delivery documents. Eighty percent (80%) of the total or pro rata CIP or amount upon Incoterm "CIP" upon delivery to the site within 45 days after receipt of invoice. Five percent (5%) of the total or pro rata CIP or amount upon issue of the Completion Certificate, within 45 days after receipt of invoice. Five percent (5%) of the total or pro rata CIP or amount upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice.
				Reply from Power Grid Please Refer to Addendum-1.
				Addendum Yes(Y)/No(N) Y
41	Volume 1	Section 9: Contract Forms, Appendix 1: Terms and Procedures of Payment	Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country	We request you to accept following payment terms of payment - Ten percent (10%) of the total EXW amount as an advance payment against receipt of invoice, and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer. The advance payment security may be reduced in proportion to the value of the plant and mandatory spare parts delivered to the site, as evidenced by delivery documents. Eighty percent (80%) of the total or pro rata EXW amount upon Incoterm "Ex-Works," upon delivery to the site within 45 days after receipt of invoice. Five percent (5%) of the total or pro rata EXW amount upon issue of the Completion Certificate, within 45 days after receipt of invoice. Five percent (5%) of the total or pro rata EXW amount upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice.
				Reply from Power Grid Please Refer to Addendum-1.
				Addendum Yes(Y)/No(N) Y








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42	Volume 1	Section 9: Contract Forms, Appendix 1: Terms and Procedures of Payment	Schedule No. 4 - Installation and Other Services	We request you to accept following payment terms of payment - Ten percent (10%) of the total installation and other services amount as an advance payment against receipt of invoice and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer. The advance payment security may be reduced in proportion to the value of work performed by the Contractor as evidenced by the invoices for installation services. Eighty percent (80%) of the measured value of work performed by the Contractor, as identified in the said Program of Performance, during the preceding month, as evidenced by the Employer's authorization of the Contractor's application, will be made monthly within 45 days after receipt of invoice. Five percent (5%) of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Completion Certificate, within 45 days after receipt of invoice. Five percent (5%) of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice.	Please Refer to Addendum-1.	Y
43	Volume 1	Section 3 & Section 4	Volume 1 / Section 3 (Evaluation and Qualification Criteria)/Clause No. 2.6 Subcontractors and Volume 1 / Section 4 (Bidding Forms)/Form EXP-7 Subcontractors	Section 3 (Evaluation and Qualification Criteria) /2.6 Subcontractors -As per tender requirement every equipment manufacturer have to provide Form EXP-7 Bidder's Query: Section 4(Bidding Forms)/Form EXP-7:Subcontractors-Contract Name, Identification, Value and Details of Contract is Required. As per our understanding Form "EXP-7 Subcontractors" is only for Electrical and Civil Works subcontractors, not for manufacturers. Every equipment manufacturer does not need to provide Form EXP-7. Moreover, From our previous experience we have seen that manufacturers do not want to provide this document because contract name contract identification, contract value these are not related information with manufacturers. Please confirm our understanding is correct.	Your understanding is correct.	N
44	Volume 1	Section 3 EOC	Subclause 2.4.1 Contracts of Similar Size and Nature Participation as a Contractor/JV Partner in at least three contracts that have been successfully completed within the last 10 (ten) years, and those are similar to the proposed contract, where the total cumulative value of upto four contracts must be at least: USD 60,000,000 (Sixty million USD)	Please clarify the minimum number of contracts to be provided by the Bidder.	Minimum three (03) to Maximum Four (04) number of contracts shall be considered for fulfilling the cumulative value of USD60,000,000(Sixty Million USD) as per the clause 2.4.1, Section-3 EOC, Volume 1 of 3 of the bidding documents.	N

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POWR GRID BANGLADESH PLC Clarification No.1, Date January 13, 2025 Design, Supply, Installation, Testing & Commissioning of 400/230/132 KV AIS Substation at Pekua and associated single /double circuit 400KV/230KV/132KV LULO Lines on turnkey basis(Package-1) (CONTRACT NO: POWERGRID/ADB400K/PEKUA/PTSI/REP/PACKAGE-1/Re-Tender, Date: 03.12.2024) Pre-bid meeting was held on 26th December, 2024 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding Document. Some queries were received from the prospective Bidders regarding the Bidding Documents. Clarifications on the above mentioned queries are given below, which will form part of the bidding documents.						
Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
45	Volume 1		SCC10.2 Clause GCC 10.2 shall be replaced by the following: The Employer shall give administrative support to accord all rights of access for substation/ transmission line thereto on or before the date(s) specified in that appendix at the cost of the Contractor. Such cost is deemed to be included in the contract price. The Contractor shall be responsible for acquiring and providing legal and physical possession of the substation/transmission line sites and access thereto, and for acquiring possession of and access to all other areas reasonably required for the proper execution of the contract, as specified in the appendix (scope of works and supply by the employer) to the contract agreement.	Based on previous experience, land acquisition and relevant cost of Substation is usually charged by Employer, please clarify.	The Employer shall give administrative support only to accord all rights of access for substation/ transmission line thereto and will not take responsibility for acquiring and providing legal and physical possession of the sites and access thereto. Land acquisition cost of Substation shall be borne by employer. Therefore, you are advised to follow the bid document.	N
46	Volume 1		SCC10.3 Clause GCC 10.3 shall be replaced by the following: The Employer shall give administrative support to accord permits, approvals and/or licenses from local, state or national government authorities or public service undertakings in the country where the Site is located. The Contractor shall acquire and pay for all permits, approvals and/or licenses from local, state or national government authorities or public service undertakings in the country where the site is located which (a) such authorities or undertakings require to obtain in the Employer's name, (b) are necessary for execution of the contract, including those required for the performance by both the Contractor and the Employer of their respective obligations under the contract, and (c) are specified in the appendix (scope of works and supply by the employer) to the contract agreement. The cost of acquiring such permits, approvals and/or licenses are deemed to be included in the contract price. Subject to Sub-Clause 10.7, any additional field data and drawing required for permits, approvals, and/or licenses from all local, state, or national government authorities, or public service undertakings, which are not required to be supplied by the Employer in the Appendix (Scope of Works and Supply by the Employer), shall be provided by the Contractor."	We suggest the Employer to undertake all the acquisition of permits, approvals and or licenses deemed for the contract. If not accept the advice mentioned above, kindly provide information and cost reference for all the permits, approvals and or licenses necessary for the contract.	The employer shall give only administrative support to the Contractor in acquiring and paying for all permits, approvals and/or licenses as stated in SCC Clause 10.3. The cost of acquiring such permits, approvals and/or licenses are deemed to be included in the contract price. The costs for all the permits, approvals and or licenses necessary for the contract are not available and so can not be provided by the Employer. So, you may consult with Contractors of similar type works to get their information and cost reference.	N
47	Volume 1		SCC19.3 For items or parts of the Facilities not specified in the Appendix (List of Major Items of Supply and Services and List of Approved Subcontractors for Major Items) to the Contract Agreement, the Contractor may employ such Subcontractors subject to written approval of Employer's Representative.	Contractor may employ subcontractors for items or parts of the Facilities not specified in the Appendix subject to written approval of Employer, kindly specify if there is minimum limitation of subcontracting amount, under which the subcontractor may be exempted of employer's approval.	Approval is needed for any amount of subcontracting.	N
48	Volume 1	Section 6: Employer's Requirements: 1. Scope of Supply of Plant and Services; (i) Power Transformer (400/230KV & 230/132KV)	*Short circuit withstand test for 400/230KV Transformer For short circuit withstand test the rating of transformer shall be 380KV, 250MVA single/ three phase or higher rating.	Please clarify if the type test report (Short ckt test) of Power Transformer to be submitted should be from same factory from where the Transformer will be supplied for this tender or can it from same group but different factory within the country.	It could be from different factory if the manufacturer along with the country of origin is same.	N







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Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
49	Volume 1	Section 6: Employer's Requirements: 1. Scope of Supply of Plant and Services; (i) Power Transformer (400/230KV & 230/132KV)	**Short circuit withstand test for 230/132KV Transformer Short circuit test certificates/reports shall be of minimum 220KV, 225MVA single/ three phase or higher rating.	Please clarify if the type test report (Short ckt test) of Power Transformer to be submitted should be from same factory from where the Transformer will be supplied for this tender or can it from same group but different factory within the country.	It could be from different factory if the manufacturer along with the country of origin is same.	N
50	Volume 1	Section 8: Special Conditions of Contract / Clause No. 10. Employer's Responsibilities	10. Employer's Responsibilities Clause GCC 10.2 shall be replaced by the following: The Employer shall give administrative support to accord all rights of access for substation/ transmission line thereto on or before the date(s) specified in that appendix at the cost of the Contractor. Such cost is deemed to be included in the contract price. The Contractor shall be responsible for acquiring and providing legal and physical possession of the substation/transmission line sites and access thereto, and for acquiring possession of and access to all other areas reasonably required for the proper execution of the contract, as specified in the appendix (scope of works and supply by the employer) to the contract agreement. Clause GCC 10.3 shall be replaced by the following: The Employer shall give administrative support to accord permits, approvals and/or licenses from local, state or national government authorities or public service undertakings in the country where the Site is located. The Contractor shall acquire and pay for all permits, approvals and/or licenses from local, state or national government authorities or public service undertakings in the country where the site is located which The cost of acquiring such permits, approvals and/or licenses are deemed to be included in the contract price	From the above clause, it is not clear who will bear the cost of land acquisition for the substation and transmission line lower foundation. As per the bidder's understanding, the cost of land acquisition for the substation and transmission line lower foundation will be borne by the Employer (Power Grid Bangladesh PLC). Please confirm our understanding is correct.	The Employer shall give administrative support only to accord all rights of access for substation/ transmission line thereto and will not take responsibility for acquiring and providing legal and physical possession of the sites and access thereto. Land acquisition cost of Substation and tower footing shall be borne by employer with the cooperation of the contractor and from the relevant RP implementation consultant where its needed. Therefore, you are advised to follow the bid document.	N
51	Volume 1	Section 3 / 2.6 Subcontractors / Transmission related items / Bypass Equipment (ERS)	ii. c. User's certificates from at least one utility, in their respective letter head indicating their address, phone & fax number, to the effect that the ERS structures procured by them from the manufacturer is being used satisfactorily for at least 3 (three) years.	As per our manufacturer's confirmation, the ERS structures are provided in projects for temporary time period. Therefore, it is not possible for manufacturers to get 03 years satisfactory performance certificate from end user. So, as per bidder's understanding only end user completion certificate will be good enough for this requirement. Please confirm our understanding is correct.	Please follow the bidding document.	N
52	Volume 1	Section 6, 8. Personnel Requirement	Regarding Personnel Requirement	Key Personnel as determined by the EMP and other safeguard management plans. As per Bidder's understanding for Personnel requirement we only need to consider Form PER-2 in Section 4 and no need to consider any other certificates/documents. Please confirm Bidder's understanding is correct.	Key personnel have to fulfill the requirements as mentioned in the Environmental Management Plan (EMP), Section-4 & Section-5 of volume-1 of 3 of the bidding documents.	N

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Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
53	Volume 1	Section 4 (Bidding Forms) / Form EXP-7: Subcontractors Section 3 (Evaluation and Qualification Criteria) / Clause No. 2.6 Subcontractors	Section 3 (Evaluation and Qualification Criteria) / 2.6 Subcontractors - As per tender requirement every equipment manufacturer have to provide Form EXP-7	Section 4 (Bidding Forms) / Form EXP-7: Subcontractors - Contract Name, Identification, Value and Details of Contract is Required. As per our understanding Form "EXP-7: Subcontractors" is only for Electrical and Civil Works subcontractors, not for manufacturers. Every equipment manufacturer does not need to provide Form EXP-7. Moreover, from our previous experience we have seen that manufacturers do not want to provide this document because contract name, contract identification, contract value these are not related information with manufacturers. Please confirm our understanding is correct.	Your understanding is correct.	N
54	Volume 1	Section 4: Bidding Forms / Price Schedules / Mandatory Spare parts including Maintenance and Test Equipment/ Schedule 1D-6 / Batteries, Chargers, & DC Distribution	Batteries, Chargers, & DC Distribution 73. Sets outgoing MCBs: 4 sets	What does 4 sets mean? Total 4 number of MCBs or total number of outgoing MCBs of each rating= 1 set?	Batteries, Chargers, & DC Distribution Spare Items: Outgoing MCBs that will be used for outgoing feeders. BoQ=4 sets.	N
55	Volume 1	Section 4: Bidding Forms / Price Schedules / Mandatory Spare parts including Maintenance and Test Equipment/ Schedule 1D-6 / Batteries, Chargers, & DC Distribution	Batteries, Chargers, & DC Distribution 74. Battery Charger complete unit, 110V: 1 sets	Battery Charger complete unit means 1 set of complete battery charger panel? Please confirm the bidder's understanding is correct. Also please confirm the ampere rating of the battery charger.	Batteries, Chargers, & DC Distribution Spare Items: Battery Charger Complete Unit, 110V (Complete Battery Charger Panel) BoQ=1 set. Ampere rating shall be same as will be approved for this project (max.) by the employer through necessary calculations during execution stage.	N
56	Volume 1	Section 4: Bidding Forms / Price Schedules / Mandatory Spare parts including Maintenance and Test Equipment/ Schedule 1D-6 / LV AC SWITCHGEAR	LV AC SWITCHGEAR 76. 3-phase sets outgoing MCCBs: 3 nos 77. 1-phase sets outgoing MCBs: 3 nos	What does 3-phase sets/1-phase sets mean? Total number of outgoing MCCBs/MCBs of single rating= 1 set?	Spare Items: 3-phase MCCB for outgoing feeders. BoQ=3 nos. 1-phase MCB for outgoing feeders. BoQ=3 nos. Difference between 3-phase & 1-phase MCCB/MCB: The single-phase supply requires two wires (one phase and one neutral) for completing the circuit. The three phase requires three phase wires and one neutral wire for completing the circuit.	N



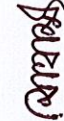


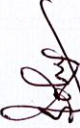



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Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
57	Volume 1	Section 4: Bidding Forms / Price Schedules / Mandatory Spare parts including Maintenance and Test Equipment/ Schedule 1D-6 / Fiber Optic Multiplexer Equipment	Fiber Optic Multiplexer Equipment 78. Set of spare modules of necessary function: 1 lot	Will the bidder be required to provide spare modules for the new (Pekua) and each remote end substation or only for the new (Pekua) substation?	The prospective bidder is required to consider spare modules only for the new (Pekua) substation.	N
58	Volume 1	Price Schedule SSD Part Schedule 4D- Installation and others/Item no.- 1K.1(ii) Slope protection	Slope (1V/2H) protection with CC block with gravity retaining wall	Bidder's understanding is slope protection is only required where a boundary wall without a retaining wall is considered. And it is only for the front side of the substation. Please confirm our understanding and also change the unit of slope protection from 'lot' to 'meter'.	Please see the Addendum 1. -Boundary wall with retaining walls will be constructed on some portions at the entrance of the front side.	Y
59	Volume 1	Price Schedule SSD Part Schedule 4D- Installation and others/Item no.- 1K.2.(i),(a) & v(a) Outdoor gantry foundation	The foundation quantity for the gantry column is given in 'lot'.	Is the gantry foundation for the future bay included in the scope of this tender? Please clarify.	The gantry foundation for the future bay (as shown in the tender layout with notes in Addendum-1) is included in the scope of this tender.	Y
60	Volume 1	Price Schedule Package 1 SS Part/Schedule B4-1/K-Civil Works, Building and Foundation/1K.2	Outdoor Gantry foundation for 400kV, 132kV, 245kV, 33kV switchyard;	Please change the unit type from 'lot' to 'nos' and mention the quantity as per the number of items required.	As per tender.	N
61	Volume 1	Section 4: Bidding Forms Page 4-14 and 4-20, Item No. 6A	400kV LILO BoQ Bypass Equipment	our understanding is that one set means required total numbers of ERS structures, insulators quantities, Guywire lengths and numbers, number of guy anchors, Hardware Fittings with components quantities, automated erection tools etc that will be finalized at execution stage upon approval from the Employer based on three scenarios and specifications mentioned in the volume 2 of 3 Tl. of the bidding document. Please confirm if our understanding is correct.	Your understanding is correct. Supply of one complete set comprises required bypass equipment for the fulfillment of Contractual obligation as well as practical field requirement.	N

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Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
62	Volume 1 & VOLUME 2A OF 3 (SUBSTATION PART)	VOLUME 2A OF 3 (SUBSTATION PART) / SECTION 14- FIBRE OPTIC MULTIPLEXER AND POWER LINE CARRIER EQUIPMENT FOR COMMUNICATION AND PROTECTION	For standardization of operation performance, facilities and spare requirements, the fibre optic multiplexer equipment for communication and protection to be supplied under this project shall consist of equipment which can totally be integrated into the existing telecommunication system in PGCB's network, including the telecommunication network management system. The fibre optic multiplexers presently used in PGCB's network are: • Hitachi FOX 515/615, and • Areva MSE 5001, MSE 5010 • Huawei The Manufacturer of Telecommunication system - Fibre optic multiplexer equipment for communication and protection shall be: Hitachi Energy (Switzerland)(Former ABB), GE (Former Alstom/Areva), ZTE/HUAWEI (China). Any other Manufacturer of Telecommunication system shall have to fulfil the Qualification Criteria required in sub-clause 2.6. of Section 3 of Volume 1 of Tender documents.	As per our understanding for Hitachi Energy (Switzerland)(Former ABB), GE (Former Alstom/Areva), ZTE/HUAWEI (China) make Telecommunication system - Fibre optic multiplexer equipment for communication and protection, we only need to consider Manufacturer's Authorization Letter. No need to consider any other manufacturer's documents as per Section 3, Clause no. 2.6. Please confirm our understanding is correct.	For the proven manufacturer in PGCB, Bidder has to submit the manufacturer authorization letter and the GTP. In case of equivalent manufacturers, the bidder has to submit all the documents as per the EOC criteria of clause no. 2.6 of Section 3 of volume 1 of 3 of the bidding documents. Please be noted that ZTE(China) is not the proven manufacturer in Power Grid. Therefore bidder is advised to follow Section-14, volume 2 of 3(substation part) of the bidding documents.	N
63	Volume 1 & VOLUME 2A OF 3 (SUBSTATION PART)	VOLUME 2A OF 3 (SUBSTATION PART) / Clause No. 5.19 Digital Fault and Disturbance Recorder (DFDR)	Subclause 5.19.4 For the purpose of standardization, the DFDR to be supplied under this project shall be from Qualitrol (Belgium/UK), SIEMENS (Germany), SEL (USA) or equivalent. Since some of the above mentioned make, viz., Qualitrol (Belgium/UK), SIEMENS (Germany) make DFDRs are already existed in PGCB's System and their performance is proven, only Manufacturer's Authorization letter among the Qualification Criteria of sub-clause 2.6 of Section 3 of volume 1 of 3 of the Bidding Document is required to be submitted with the bid of the bidders who choose to propose DFDR from these proven manufacturers. Acceptance of any other DFDR with similar characteristics shall have to fulfill the Qualification Criteria of sub-clause 2.6 of Section 3 of volume 1 of 3 of the Bidding Document.	As per our understanding for Qualitrol (Belgium/UK), SIEMENS (Germany) make DFDR, we only need to consider Manufacturer's Authorization Letter. No need to consider any other manufacturer's documents as per Section 3, Clause no. 2.6. Please confirm our understanding is correct.	For the proven manufacturer in PGCB, Bidder has to submit the manufacturer authorization letter and the GTP. In case of equivalent manufacturers, the bidder has to submit all the documents as per the EOC criteria of clause no. 2.6 of Section 3 of volume 1 of 3 of the bidding documents.	N







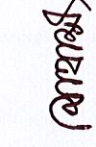

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Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
64	Volume 1 & VOLUME 2A OF 3 (SUBSTATION PART)	Volume 1 / Section 3 (Evaluation and Qualification Criteria) / Clause No. 2.6 Subcontractors VOLUME 2A OF 3 (SUBSTATION PART)	Subclause 5.2.1 For standardization of operating performance, facilities and spare requirements, the protection relays and control systems, together with complete panels to be supplied under this project shall be manufactured by Hitachi (Switzerland/Sweden), ABB/GE (France/UK/USA), Siemens (Germany), SEL (USA/UK/Canada) or equivalent. Since some of the above mentioned make, viz., Hitachi (Switzerland/Sweden), ABB/GE (France/UK/USA), SEL (USA/UK/Canada) and Siemens (Germany) make Protection Relay and Substation Automation System (SAS) are already existed in PCCB's System and their performance is proven, only Manufacturer's Authorization letter among the Qualification Criteria of clause 2.6 of Section 3 of volume 1 of 3 of the Bidding Document is required to be submitted with the bid of the bidders who choose to propose Relay & SAS from these proven manufacturers. Acceptance of any other Relay, control system and SAS with similar characteristics shall have to fulfil the Qualification Criteria of clause 2.6 of Section 3 of volume 1 of 3 of the Bidding Document. * The scope of work may also include four three Phase Shunt Reactor with its capacity size for 400KV line bays and associated switchgear's including all necessary works and services if necessary after EMTP study to be performed by the Contractor as specified in Section 16, Volume 2 of 3 of the Bidding Document. These clauses describe the General Technical Requirements for 400KV Shunt Reactor and associated switchgear's including all necessary works and services for installing Shunt Reactor and associated switchgear's at 400KV substation and shall be read in conjunction with the Requirements in Volume 2 of 3 if necessary after EMTP study (study to be performed by the contractor) and size of the above reactor shall be based on the above study report.*	As per our understanding for Hitachi (Switzerland/Sweden), ABB/GE (France/UK/USA), SEL (USA/UK/Canada) and Siemens (Germany) make Protection Relay and Substation Automation System (SAS), we only need to consider Manufacturer's Authorization Letter. No need to consider any other manufacturer's documents as per Section 3, Clause no. 2.6. Please confirm our understanding is correct.	For the proven manufacturer in PCCB, Bidder has to submit the manufacturer authorization letter and the GTP. In case of equivalent manufacturers, the bidder has to submit all the documents as per the EQC criteria of clause no. 2.6 of Section 3 of volume 1 of 3 of the bidding documents.	N
65	Volume 1, Volume 2 (SS Part) & Volume 3 (SS Part)	Clause 1.1/Section-1/Volume 2 (SS Part), Clause 16.1/Section-16/Volume 2 (SS Part)	* The scope of work may also include four three Phase Shunt Reactor with its capacity size for 400KV line bays and associated switchgear's including all necessary works and services if necessary after EMTP study to be performed by the Contractor as specified in Section 16, Volume 2 of 3 of the Bidding Document. These clauses describe the General Technical Requirements for 400KV Shunt Reactor and associated switchgear's including all necessary works and services for installing Shunt Reactor and associated switchgear's at 400KV substation and shall be read in conjunction with the Requirements in Volume 2 of 3 if necessary after EMTP study (study to be performed by the contractor) and size of the above reactor shall be based on the above study report.*	Based on the referred clauses of Volume 2, EMTP study is required and to be conducted by contractor and the reactor size is indicative and to be decided based on the study. However, there is no mention of Reactor & EMTP study in the price schedule and the EMTP study is not indicated. We understand that - a) EMTP study is not in the scope of contractor and b) Supply, civil works, installation, Testing and Commissioning of Reactor is also not a part of our scope of works. Please confirm that our understanding is correct.	No EMTP study is required.	N
66	Volume 2 (SS Part) Layout Section 4 Price Schedules Volume 1 Schedule 4D		230KV switchyard panel Room (SPR)	We observed that SPR for 230KV switchyard is missing in the price schedule. Kindly review and confirm. Moreover, kindly inform where will 230KV CRP panels, RTCC panels, 110V Battery, 110V Chargers, 110V DCDBs, will be placed	No SPR for 230KV system. 230KV system-related panels will be placed in the main control building.	N
67	Volume 2 (SS Part) PowerGrid/ADB/LAY_all		SS Part Related Drawings	We presume that, Gantry Towers, Beams, Rigid/Flexible Main Bus, cable trench, etc works to be considered only for present scope of works. However, only space provisions to be considered for future scope of works. Please confirm.	As per Tender. The tender SLD and Layout are comprehensive and with future implications. Particular requirements under this project scope shall be as per Schedule-A (scope of work) and Schedule-B (price schedule).	N
68	Volume 2 (SS Part) PowerGrid/ADB/LAY_all		SS Part Related Drawings	Please provide the location of 2 nos of 500KVA Aux. Transformers to be placed.	This is supposed to be placed near to the respective power transformer considering fire hazard, but actual position shall be finalized during the execution stage through final layout approval.	N

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POWR GRID BANGLADESH PLC Clarification No. 1, Date January 13, 2025 Design, Supply, Installation, Testing & Commissioning of 400/230/132 KV AIS Substation at Pekua and associated single double circuit 400KV/230KV/132KV LLO Lines on turnkey basis(Package-1) (CONTRACT NO: POWERGRID/ADB400KV/PEKUA/PTSIREP/PACKAGE-1/Re-Tender, Date: 03.12.2024) Pre-bid meeting was held on 28th December, 2024 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding document. Some queries were received from the prospective Bidders regarding the Bidding Documents. Clarifications on the above mentioned queries are given below, which will form part of the bidding documents.						
Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
69	Volume 2 (SS Part)	General	Remote End CRP-NLDC Augmentation	Please note that we are not considering any remote-end NLDC augmentation/modification scope in present scope for complete substation package. Please confirm.	As per Tender. Particular requirements under this project scope shall be as per Schedule-A (scope of work) and Schedule-B (price schedule). For better clarification, please see the communication topology/related drawings provided in volume-2 (Proposed Optical Communication Scheme for Pekua 400/230/132 KV SS).	N
70	Volume 2 (SS Part)	General	Remote End Communication-NLDC Augmentation	Please note that we are not considering any communication panel/integration for NLDC in present scope for complete substation package. Please confirm.	As per Tender. Particular requirements under this project scope shall be as per Schedule-A (scope of work) and Schedule-B (price schedule). For better clarification, please see the communication topology/related drawings provided in volume-2 (Proposed Optical Communication Scheme for Pekua 400/230/132 KV SS).	N
71	Volume 2 (SS Part)	General	Remote End CRP Panel	Please note that we are not considering any protection and control relay panels for remote end line bays connected to our present scope bays. Please confirm.	As per Tender. Particular requirements under this project scope shall be as per Schedule-A (scope of work) and Schedule-B (price schedule). For better clarification, please see the PSD drawings provided in volume-2.	N
72	Volume 2 (SS Part)	General	HFL	We request you to provide the HFL for Switchyard	It is the bidder responsibility to collect HFL data from Bangladesh Water Development Board.	N
73	Volume 2 (SS Part)	CI 11.3.26	Concrete	Grade of reinforcement steel shall be Fe500. Please confirm.	Mentioned reinforcement steel grade (Fe400) is minimum grade.	N
74	Volume 2 (SS Part)	CI 11.3.26	Concrete	Grade of structural concrete shall be M20 or M30. Please confirm.	Mentioned concrete grade (M20) minimum grade of concrete.	N
75	Volume 2 (SS Part)	CI 11.3.28 CI 11.3.21	Foundations	Minimum thickness of footing shall be 300 mm. Please confirm.	Please follow the minimum thickness of the footing as specified in the tender document.	N
76	Volume 2 (SS Part)	-	Crack width	Limiting crack width shall be 0.2 mm for underground structures. Please Confirm.	As per BS.	N
77	Volume 2 (SS Part)	Appendix 12	Wind Load	q_{ref} & Wind pressure shall be as per Appendix 12. Please Confirm.	Confirmed.	N
78	Volume 2 (SS Part)	Appendix 12	Seismic coefficient	Seismic coefficient shall be 0.1g as per Appendix 12. Please confirm.	Confirmed.	N
79	Volume 2 (SS Part)	CI 11.3.8	Building Floors	Minimum thickness of suspended floor slabs shall be 150 mm. Please confirm.	Minimum thickness of the suspended floor slab shall be as per contract and standard design requirement.	N
80	Volume 2 (SS Part)	CI 12.4	Materials	Structural steel shall have minimum characteristic strength as 250N/mm ² . Please confirm.	Characteristic strength of structural steel shall be as per design.	N
81	Volume 2 (SS Part)	CI 12.6	Protective Treatment	Galvanising shall be as 610 gm/Sqm. Please confirm.	Galvanizing shall be as per code.	N
82	Volume 2 (SS Part)	CI 11.3.2 [e]	Foundations, Site Investigation	Please specify the minimum diameter of pile	Minimum diameter of pile for support of any structure shall be as per BNBC.	N
83	Volume 2 (SS Part)	CI 12.3.2	Assumed Loading combinations	SCF & wind/seismic shall not be considered simultaneously.	Please follow the load combination of the contract.	N
84	Volume 2 (SS Part)	CI 12.3.2	Assumed Loading combinations Ice consideration in various loading combinations for eg: Load Combination 1 - Design Wind, Coincident Temperature, (Ice)	We assume that ice (radial ice thickness) loading is not to be considered for calculations for substation structures also (Gantry, Beam, Support Structures) as per Appendix to Section 12 (page no. 316/480)	Please follow the bidding document.	N






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Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
85	Volume 2 (SS Part)	Section 14 Page No 14/3 (on the page) and 378/476 (on the PDF file) of Volume 2 (SS Part)_PTSI REP_P1	The Scope of work is to connect the Substation Automation System to the existing communication system to be installed under this contract for securing the transport of voice, data and protection signals, complete system for new substations and extension and integration into the existing system for existing substations. The scope of work is to connect REMOTE END substations, too, All necessary equipment, material and services shall be included in the contract price.	Please provide the following details : 1. Name of Remote End Stations getting connected to 400KV PEKUA Substation. 2. Make of Existing Fiber Optic Terminal Equipment at each of the Remote end Substations. 3. Whether sufficient space is available in existing Fiber Optic Terminal Equipment at each of the Remote End Substations for necessary addition of modules for 400KV PEKUA connection for specific applications.	1. Please see the tender SLD, Layout and Optical Communication Scheme drawings in volume-2. 2. Please see Optical Communication Scheme drawings in volume-2. 3. The present scope of work under this project to accommodate necessary modules shall be as per schedule A (scope of work) and schedule B (price schedule). To collect space-related information, bidders are requested to visit the respective sites/ ss.	N
86	Volume 2 (SS Part)	Section 3 Evaluation and Qualification Criteria on Page No. 62/321 Clause No. 11 Communication Equipment (Fiber Optic Multiplexer & PLC)	Existing Fiber Optic Multiplexers used in PowerGrid's grid network are ABB(Hitachi) make FOX1515615, Huawei Make OSN1800V and Areva make MSE5001 type. The Proposed Fiber Optic Multiplexer shall have to be integrated with existing telecommunication Network Management System and compatible with existing equipment.	Please provide make and model no of existing Network Management System. Please confirm whether PowerGrid is using existing Network Management System for monitoring and control of speech, data transfer and line distance and line differential protection coupler from existing Network Management System.	As per tender. Moreover, bidders may collect necessary information from OEM or from control center (NLDC) upon consultation through PD office. Yes, powergrid is using NMS for monitoring and control of speech, data transfer and line distance and line differential protection coupler from existing NMS.	N
87	Volume 2 (SS Part)	Section 14 Page No 14/4 (on the page) and 379/476	14.1 Summary of Standards The Equipment shall comply with the latest ITU-T recommendations for the Plesiochronous, Synchronous hierarchies & multiprotocol label switching transport profile. The equipment shall be KEMA type tested	the requirement stated in the whole contract, i.e., in volume-1, volume-2, and other places. Other test reports, which are post-production-related reports, may be submitted during the execution stage	As per tender. Necessary type test certificates for evaluation purposes shall be submitted as per the requirement stated in the whole contract, i.e., in volume-1, volume-2, and other places. Other test reports, which are post-production-related reports, may be submitted during the execution stage.	N
88	Volume 2 (SS Part)	Section 14 Page No 14/4 (on the page) and 352/480	14.1.1 PDH Interfaces The PDH interfaces shall confirm to the following recommendations:	PowerGrid is not having any applications for requirement of PDH interfaces. Please confirm specific PDH interfaces required in Telecom Equipment.	As per tender. The present scope of work under this project shall be as per schedule A (scope of work), schedule B (price schedule) and drawings provided in volume-2 (Proposed Optical Communication Scheme)	N
89	Volume 2 (SS Part)	Section 14 Page No 14/8 (on the page) and 356/480	Any equipment in the network shall be manageable from a control center and there shall be means to supervise external/existing equipment as well	Please confirm existing NMS at Control Center.	As per tender. Moreover, bidders may collect necessary information from OEM or from control center (NLDC) upon consultation through PD office.	N
90	Volume 2 (SS Part)	Section 14 Page No 14/19 (on the page) and 389/476	14.6.13 Optical Protection Relay Interface	We understand PowerGrid is using Direct Fiber for Relay to Relay connection for Line Differential Protection. Please confirm if this interface is required and please confirm if redundancy is required for Line Differential Protection?	Confirmed.	N





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Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
91	Volume 2 (SS Part)	Section 14 Page No 14/19 (on the page) and 357/480	14.6.12 Teleprotection Interface All inputs and outputs shall be isolated and with EMC immunity for harsh environment. Security, dependability and transmission speed shall be selectable and programmable. It shall be able to drop and insert commands, transfer commands as a transit station, it shall be possible to have AND- and OR-connections between commands. The interface shall support T-nodes The teleprotection interface shall provide an integrated non-volatile event-recorder which shall be synchronisable either internally or by GPS or a command counter which counts trip	Please confirm our understanding is offered Distance Protection coupler must support distance protection in 2 direction, it means 2 commands in one direction and another 2 commands in second direction. Bidder can offer standalone protection coupler to meet additional direction separately to meet this requirement. Please confirm our understanding is correct.	As per tender. Please follow the tender technical specifications/ requirement as stipulated therein.	N
92	Volume 2 (SS Part)	Section 14 14.1.1 PDH Interfaces, Page No. 14/4 (on the page), 352/480 Page No 14/8 (on the page) and 357/480	As a minimum modules for the following user signals shall be available as plug-in units for the digital multiplexer: • Analogue subscriber interface: subscriber and exchange side • G.703, 64kb/s data interface • Alarm collection interface • Teleprotection command interface • Binary signal (status and control) interface • 2Mb/s electrical interface for unframed signals acc. to ITU-T G.703 and G.704 Additionally, the equipment shall provide the following aggregate interfaces: • STM-4 (622 Mb/s) optical 1+1 interface for medium and long distances, with automatic laser shut down. • STM-1 (155 Mb/s) / STM-4 (622 Mb/s) optical add-drop interface for medium and long distances, with automatic laser shut down • 2 Mb/s electrical interface	We understand that PowerGrid is accepting Hybrid Equipment SDH + MPLS-TP hence no separate PDH interfaces are required. Please confirm our understanding is correct. Yes, your understanding is correct. Moreover if any PDH services mentioned in scope or in remote end station needs to modify its equipment during detail design then PDH interface may be required. Please follow the tender technical specifications/ requirement as stipulated therein.	Yes, your understanding is correct. Moreover if any PDH services mentioned in scope or in remote end station needs to modify its equipment during detail design then PDH interface may be required. Please follow the tender technical specifications/ requirement as stipulated therein.	N
93	Volume 2 (SS Part)	Section 14 Page No 14/13 (on the page) and 358/476	The following SDH interfaces shall be available : STM 1/4 for 132KV & lower voltage level STM-4/16 for 230KV voltage level STM-16 for 400KV voltage level The number of optical port shall be as per field requirement.	We understand that PowerGrid is accepting Hybrid Equipment SHD + MPLS-TP. For SDH STM-4 and for MPLS-TP 1G with upgradeable possibility in future to 10G by only changing SFP and suitable software without changing the hardware. Please confirm if our understanding is correct.	As per tender. Please follow the tender technical specifications/ requirement as stipulated therein. please see the communication topology/related drawings provided in volume-2 (Proposed Optical Communication Scheme for Pekua 400/230/132 KV SS).	N
94	Volume 2(SS Part)	Section 4: Power Transformer/ 4.5.4 Joints and Gaskets	Oil resisting synthetic rubber gaskets are not permissible except where the synthetic rubber is used as a bonding medium for cork, or similar material, or where metal inserts are provided to limit compression.	Synthetic materials is being used for most gaskets while few of our suppliers mainly uses Nitrile rubber, Acrylate, Fluorosilicone rubber, and Hydrogenated nitrile rubber as gasket material. But the Technical specification mentioned the synthetic rubber gaskets are not permissible. We request you to confirm the materials can be used for Gasket.	As per tender. Please follow the tender technical specifications/ requirement as stipulated therein. For BoQ, please follow scope of work and price schedule.	N
95	Volume 2(SS Part)	SECTION 16 (Not Applicable)	WORKS AND EQUIPMENT FOR SHUNT REACTOR INSTALLATION	Please confirm that there is no SHUNT REACTOR in this project.	Particular requirement under this project scope shall be as per Schedule-A (scope of work) and Schedule-B (price schedule). There is no SHUNT REACTOR in this project.	N

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Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid
96	Volume 2 of 3 SS	Clause 1.2.1 System Condition	System Condition	In the mentioned item the requirement is for 50Hz withstand 1 minute is 650KV for 400KV system. As per IEC 61869-1, for the highest voltage level of 420kV the frequency withstand can be 630KV. Moreover, in the GTP of the 420KV Current Transformer item 5 the Power frequency withstand voltage (1 min) is required as 630KV. Please confirm us the Power Frequency withstand voltage as 630KV as per GTP requirement is correct.	Confirmed, 630KV.
97	VOLUME 2A OF 3 (SUBSTATION PART)	SECTION 11 / Clause No 11.17	General	We understand that Fire extinguisher quantity shall be w.r.t Table-1 provided under clause No 11.7.2. Please confirm	Yes. Moreover, other requirements related to this as stipulated in any other part of this tender shall also be duly applicable to be complied by the bidder.
98	VOLUME 2A OF 3 (SUBSTATION PART)	SECTION 4 / Clause No 4.17.2	The pressurizing air vessel is to be designed for a minimum spraying time of 5/20 minutes and is to be fully equipped with all necessary fittings and connecting pipes, pressure controllers, low water level alarm, reducing valves and all other equipment essential for trouble-free operation.	As per referred Clause, The pressurizing air vessel is to be designed for a minimum spraying time of 20 minutes. However, please note that, Pressurizing Vessel shall be provided to minimize the no. of Start-Stop of Jockey Pumps. The size of Pressurizing vessel shall be decided to meet water demand due to Minor leakage through various Flanges, Joints etc. in Fire Pipe Network & the same shall not be decided based on Spraying Time. If we consider Fire Water Storage Tank for 1 hr. operation of HWS System for Transformer as per NFPA, then Further storage of 20 min. spraying time for pressurizing Vessel is not required at all. Also note the 20min Spraying time Storage will be huge Size, over design & unnecessary add to the cost of Project. Hence, we request you to check & revise this clause.	As per tender. Please follow the scope of work along with the technical specifications/requirements stated in the bid documents properly.
99	Volume 2 of 3 (SS Part)	Section 6		There are some 400KV shunt reactor and its related equipment in the section 6 of Volume 2 of 3 tender document, but there are not some equipment or description in the BOQ or Single line drawing. Please confirm whether there is 400KV reactor in this project. If yes, please update the BOQ table.	Volume 2 of 3 of tender doc. is a general specification. And it is to be carefully noted that the relevant section for shunt reactor (section 16) is identified as "Not Applicable" for this project.
100	Volume 2 (SS)	SECTION 2 - ANCILLARY MECHANICAL AND ELECTRICAL APPARATUS / Clause No. 2.31 / Insulating Oil	INSULATING OIL Insulating oil shall comply with the requirements of IEC 60296. Insulating oil shall be provided by the Bidder for all oil-filled apparatus and 10% excess shall be provided for topping up purposes in sealed drums. The Bidder shall provide at no additional cost any oil treatment facilities he may require for his own use in order to ensure that insulating oil meets the requirements of the specification.	As per this clause, 10% excess insulating oil shall be provided by the Bidder but there is no line item in the price schedule for this excess insulating oil. Please confirm whether it is required or not. If it is required then please revise the price schedule including this line item.	It's applicable only for all oil-filled apparatus. Thus, prices for this 10% excess insulating oil shall be deemed to be integrated with prices of respective oil-filled apparatus in line item of price schedule.
101	Volume 2 (SS)	SECTION 3 - HV SWITCHGEAR AND NEUTRAL EARTHING EQUIPMENT APPARATUS / Clause No. 3.4.5.6 Mandatory Maintenance Equipment	3.4.5.6 Mandatory Maintenance Equipment a) SF6 gas filtering, drying, storage, filling and evacuation plant. b) SF6 gas leak detector c) Operational analyzer	As per this clause, a, b, and c shall be provided by the Bidder but there are no line items in price schedule for these items. Please confirm whether these items are required or not. If these items are required then please revise the price schedule including these line items.	Particular requirement under this project shall be as per scope of work (schedule-A) and price schedule but other associated requirements as stipulated any other part of this tender shall also be duly applicable to be complied by the bidder.

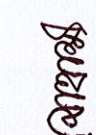




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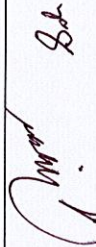
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Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid
102	Volume 2 (SS)	SECTION 16 - WORKS AND EQUIPMENT FOR SHUNT REACTOR INSTALLATION APPARATUS / Clause No. 16.1 - Scope	SCOPE These clauses describe the General Technical Requirements for 400KV Shunt Reactor and associated switchgears including all necessary works and services for installing Shunt Reactor and associated switchgears at 400KV substation and shall be read in conjunction with the Requirements in Volume 2 of 3 if necessary after EMTP study (study to be performed by the contractor) and size of the above reactor shall be based on the above study report.	As per this clause, a, b, and c shall be provided by the Bidder but there are no line items in price schedule for these items. Please confirm whether these items are required or not. If these items are required then please revise the price schedule including these line items.	Confirmed. N
103	Volume 2 (SS)	Section 5: Protection, Metering and Control Including Substation Automation / Clause No. 5.9.1 400KV, 230KV and 132 KV Transmission Line Protection	5.9.1 400KV, 230KV and 132 KV Transmission Line Protection Protective devices for Main 1 and Main 2 overhead line protection are shown on Bid Drawing. These devices shall comply with the following. For 400KV transmission lines two sets of line differential relays shall be proposed which must be matched with the remote ends if necessary, remote end relays shall be also included in the scope of supply with necessary communication equipment. 5.9.1.1 Main 1 and Main 2 protection of 230 KV & 132KV line shall be of Line differential protection with back-up distance protection for short length or if the remote end already has line differential relay, Line differential protection is optional of Long and Medium length lines. Definition of Long, Medium and Short length line is base on Clause 5.2 of IEEE Std. C37.113TM-2015. The Main & Back-up protection of 132 KV line shall be Line differential with full scheme distance protection or Distance protection alone (based on the criteria above) and Directional overcurrent & Earth fault protection respectively. Main 1 and Main 2 both protection of 230 KV line shall be Line differential with full scheme distance protection or Distance protection alone (based on the criteria above). Both Main-1 and Main-2 protections should operate in conjunction with tele-protection channels over optical fibre for tele-protection schemes of distance protection. All relays shall be of numerical type. The philosophy of PSLD & Trip logics will be applied in all aspects.	(a) As per clause 5.9.1, for 400KV Transmission Lines, remote end relays are in the bidder's scope but there are no line items in the price schedule for these items. Please confirm whether the bidder needs to consider remote end relays or not? If need to consider then please revise the price schedule including these line items. Also confirm whether the bidder will have to do integration for the newly supplied relays with the existing SAS at the remote end substation? (b) For 230 KV and 132 KV Transmission Lines, the bidder needs to consider remote end relays or not? If need to consider then please revise the price schedule including these line items. Also confirm whether the bidder will have to do integration for the newly supplied relays with the existing SAS at the remote end substation?	As per tender. The contractor is responsible for ensuring that all and/or any item(s) of work required for the safe, efficient and satisfactory completion and functioning of the works, are included in the Bid Price whether they be described in the specification if necessary, remote end relays shall be also included in the scope of supply with necessary communication equipment. Bidders are requested to visit respective sites for existing substation's Data. N
104	Volume 2 (SS)	Section 5: Protection, Metering and Control Including Substation Automation / Clause No. 5.20 Travelling Wave Fault Locator (TWFL)	5.20.1 All line of 400KV voltage level or above shall be equipped with Travelling Wave Fault Locator (TWFL) for determining accurate fault location. The TWFL shall be suitable both for Single ended & Double ended application. For achieving double ended application necessary equipment & panel for the remote end Substation must be supplied. For LULO transmission lines TWFL shall be matched with remote end substation.	As per above clause, for achieving double ended application necessary equipment & panel for the remote end Substation must be supplied by the bidder. Please confirm whether it is required or not. If it is required then please revise the price schedule including this line item.	As per tender. The contractor is responsible for ensuring that all and/or any item(s) of work required for the safe, efficient and satisfactory completion and functioning of the works, are included in the Bid Price whether they be described in the specification if necessary, remote end relays shall be also included in the scope of supply with necessary communication equipment. Bidders are requested to visit respective sites for existing substation's Data. N
105	Volume-2, SS Part	Section 11.1.1/ Page-1/14	(V) Road including access road with a culvert or sufficient drainage pipes and roadways within sites, surfacing the entire area within site boundary and surface	Please specify whether to use culvert or drainage pipes adding a line item about it in the price schedule if required for this project.	Provision of sufficient drainage system is required to road at entrance using drainage pipe. Costs are deemed to be included within the quoted price of the bidder. N
106	Volume-2 (SS Part)	Section-11/11.3.3	The entire surface within boundary walls shall be of uniform sloping site, sloping at 1 in 150 minimum slope to open channels around the entire perimeter.	As sloping of all pipelines at 1 in 150 is practically very difficult Bidder proposes to make the slope of the surface drain at 1 in 500, the slope of the switchyard drainage pipe at 1 in 300 Please confirm.	Please follow the bidding document. N




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Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid
107	Volume 2 (SS)	Section - 18 / Drawings / Proposed Optical Communication Scheme for Pekua 400/230/132 KV SS / 19.PG/ADB/OPT	N. B. : 1. All RED are scope of this project. 2. OP-GW of LULO portion/portions (not shown in drawing) is/are also scope of this project. 3. If different multiplexer equipment rather than existing is proposed in the remote stations having power consumption more than 10 amps then additional 48 volt battery chargers & battery sets shall be provided within the project scope.	As per Point No. 3, if different multiplexer equipment rather than existing is proposed in the remote stations having power consumption more than 10 amps then additional 48 volt battery chargers & battery shall be provided by bidder. But there is no line item for this in the price schedule. Please confirm whether it is required or not. If it is required then please revise the price schedule including this line item. Also, please confirm the manufacturer of the existing multiplexer equipment at the existing Anowara 230/132 KV SS and Cox sbazar 230/132 KV SS.	As per tender. The contractor is responsible for ensuring that all and/or any item(s) of work required for the safe, efficient and satisfactory completion and functioning of the works, are included in the Bid Price whether they be described in the specification if necessary, remote and relays shall be also included in the scope of supply with necessary communication equipment. Bidders are requested to visit respective sites for existing substation's Data. Other information may be collected from respective offices of power grid upon consultation with PD office.
108	Volume 2 (SS)	Section - 18 / Drawings / Proposed Optical Communication Scheme for Pekua 400/230/132 KV SS / 19.PG/ADB/OPT	N. B. : 1. All RED are scope of this project. 2. OP-GW of LULO portion/portions (not shown in drawing) is/are also scope of this project. 3. If different multiplexer equipment rather than existing is proposed in the remote stations having power consumption more than 10 amps then additional 48 volt battery chargers & battery sets shall be provided within the project scope.	As per Point No. 3, if different multiplexer equipment rather than existing is proposed in the remote stations having power consumption more than 10 amps then additional 48 volt battery chargers & battery shall be provided by bidder. Please confirm the quantity and rating of battery and battery chargers for each substation.	As per tender. The contractor is responsible for ensuring that all and/or any item(s) of work required for the safe, efficient and satisfactory completion and functioning of the works, are included in the Bid Price whether they be described in the specification if necessary, remote and relays shall be also included in the scope of supply with necessary communication equipment. Bidders are requested to visit respective sites for existing substation's Data. Other information may be collected from respective offices of power grid upon consultation with PD office.
109	Volume 2 of 3			There are two 11KV lines in the substation site provided by the owner. There is no relevant work content for handling them in the bidding documents. It is necessary to clarify with the owner whether the transformation of the line is included in the scope of work of this project.	Replacement of the 11KV Lines shall be within the scope of employer.
110	Volume 2 of 3		Annex 1-1: Scope and Extent of Definite Works (ii) LULO of Anwara-Cox's Bazar 230KV double circuit line at Matarbari 400/230/132KV (Approx. 0.8 km) using Twin ACSR Malled Conductor per phase and two 7x4.0mm GSW Earthwire equiv. OP-GW. One four circuit line will be constructed. Two Circuits from Cox's sbazar will be terminated at 132KV gantry. (iii) LULO of Existing Matarbari - Chakaria 132KV line at Matarbari 400/230/132KV (Approx. 1 km) using Single ACSR Grosbeak Conductor per phase and two 7x3.25 mm GSW Earthwire equiv. OP-GW. One four circuit line will be constructed.	As per the scope there are four circuit 230KV line and four circuit 132KV line, but according to the SLD of SS part, there are only two gantries for 230KV line and six gantries for 132KV line, please explain in detail why two circuits 230KV line from Cox sbazar will be terminated at 132KV gantry.	As per Tender. Particular requirement under this project scope shall be as per Schedule-A (scope of work) and Schedule-B (price schedule). In accordance with the availability of switchgear at Anowara SS & Cox's Bazar SS, the concerned 230KV LULO Lines shall be terminated at this project's SS the way as shown in SLD and BoQ shall be as per Schedule-A (scope of work) and Schedule-B (price schedule).
111	Volume 2 (TL) 24 Spare Parts		22.14.2 Recommended Spares In addition to the spare parts mentioned above, the Supplier shall also provide a list of recommended spare parts for at least 10 years operation/use of these equipment/tools. Price quoted for such spare parts deemed to be included in the contract price. The necessary spare parts shall be assessed by manufacturer/supplier.	There are no line items for recommended spares in the price schedule (From Price Schedule-1 to 4). Please confirm whether these recommended spare parts are required or not. If these items are required then please revise the price schedule including these line items in Price Schedule-1 to 4.	Recommended spare parts are not required, please follow the addendum no.1.






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POWR GRID BANGLADESH PLC Clarification No.1, Date January 13, 2025 Design, Supply, Installation, Testing & Commissioning of 400/230/132 kV AIS Substation at Pekua and associated single (double circuit 400kV/230kV/132kV LULO Lines on turnkey basis(Package-1) (CONTRACT NO: POWERGRID/ADB/400K/PEKUA/PTS/REP/PACKAGE-1/Re-Tender, Date: 03.12.2024) Pre-bid meeting was held on 26th December, 2024 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding document. Some queries were received from the prospective Bidders regarding the Bidding Documents. Clarifications on the above mentioned queries are given below, which will form part of the bidding documents.						
Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
112	Volume 2 of 3	1.3CLIMATIC CONDITIONS		Please clarify whether the design wind speed is 150km/h, and please specify the recurrence period and time interval.	The information in this Clause is given solely for the general assistance of Bidders and no responsibility for it will be accepted nor will any claim based on this Clause be considered. Actual design shall be finalized during execution stage based on employer engineers' approval.	N
113	Volume 2	CI 12.2	Structure Arrangement	Please confirm Gantry & Equipment Support Structure shall be of lattice type .	Please follow the bidding document.	N
114	Volume 2	CI 11.6	Land Development	Kindly specify the average depth of filling to be considered - 2.5 m or 5.1 m. Please confirm	Depth of land filling will be finalized during the execution stage based on nearest public road level. For this regard please follow the Addendum-1.	Y
115	Volume 2	General	Land Development	Kindly furnish the contour drawing of the substation	Bidders are requested to visit the site for detailed information.	N
116	Volume 2	General	Land Development	Kindly specify the FGL of the Substation plot. If it is different for each voltage level, then kindly advise accordingly.	The FGL of the substation will best finalized during execution stage. For whole substation, the depth of land filling (FGL) will be same.	N
117	Volume 2	General	Land Development	We have observed water canals within the substation plot area. Kindly confirm whether filling is to be considered for the entire substation plot including canals.	Confirmed.	N
118	Volume 2	General	Land Development	Kindly confirm whether diversion of water canals is not part of the scope of this tender.	Confirmed.	N
119	Volume 2	CI 11.3.2(e)	Ground Conditions, Foundations and Site Investigation	Foundations of equipments can be placed in filled up soil, subjected to SBC check & ground improvement. Please confirm	Please follow the bidding document.	N
120	Volume 2	Annex 11.1	Determination of length of pile	Pile Cap can be placed in filled up soil considering entire load of pile cap is transferred through pile. Please confirm.	Confirmed.	N
121	Volume 2	PG/ADB/SLD.1 Schedule 1D, S.No: 1B2 Schedule 1D, S.No: 1B1	Circuit Breaker for 245KV line bay	For 230KV Awara line 1 & 2: As per SLD, it is specified that three pole ganged operated Circuit Breaker are required for line bays while single pole operated CB for line bays are specified. Kindly clarify. For 230kV Transformer bays: As per SLD, three pole ganged operated Circuit Breaker is specified for bay no. 105 & 107, while single pole operated Circuit Breaker are required specified for bay no. 104, 220/132KV transformer bays (2). Kindly clarify.	The tender SLD is Preliminary & is for Bidding Purpose Only. Particular requirement under this project scope shall be as per Schedule-A (scope of work) and Schedule-B (price schedule). Please follow price schedule and scope of work for BoQ purposes.	N
122	Volume 2	PG/ADB/SLD.1 Schedule 1D, S.No: 1B4	DS with 1ES for 220/132KV Transformer bay (220/132KV)	We have observed that DS without Earth switch is specified for 230KV transformer bays bay no. 105 & 107. However, as per BOQ we need to offer Disconnector without Earthswitch. Kindly clarify.	DS with ES for both HV & LV side of all Transformers have been considered subsequently. Relevant BoQ (price schedule & scope of work) and SLD have been modified accordingly. Necessary addendum (Addendum-01) is attached with the clarifications.	Y
123	Volume 2	PG/ADB/SLD.2 Schedule 1D, S.No: 1C4	DS with 1ES for 132KV Transformer bay	The quantity of Disconnector with Earthswitch for Transformer bay are not matching with the BOQ. Kindly clarify.	DS with ES for both HV & LV side of all Transformers have been considered subsequently. Relevant BoQ (price schedule & scope of work) and SLD have been modified accordingly. Necessary addendum (Addendum-01) is attached with the clarifications.	Y
124	Volume 2	PG/ADB/SLP	Slope Protection	Kindly furnish the depth of the retaining wall below the adjacent road level	Please follow the bidding document and drawings.	N
125	Volume 2	General	Soil Investigation Report	We request you to furnish Soil Investigation Report for Substation Plot comprising of - Soil Resistivity and Soil Bearing Capacity	It is the bidders responsibility for conducting sub-soil investigation for assessing.	N

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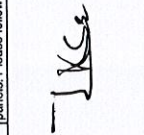
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POWR GRID BANGLADESH PLC Clarification No.1, Date January 13, 2025 Design, Supply, Installation, Testing & Commissioning of 400/230/132 kV AIS Substation at Peka and associated single /double circuit 400KV/230KV/132KV LULO Lines on turnkey basis(Package-1) (CONTRACT NO: POWERGRID/ADB400KVIPEKUA/PTSIREPP/PACKAGE-1/Rc-Tender, Date: 03.12.2024) Pre-bid meeting was held on 26th December, 2024 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding document. Some queries were received from the prospective Bidders regarding the Bidding Documents. Clarifications on the above mentioned queries are given below, which will form part of the bidding documents.														
Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)								
126	Volume 2	PG/ADB/SLD.1 PG/ADB/SLD.2 PG/ADB/SLD.3 PG/ADB/LAY_all	Total Number of total bays (Current & Future)	The number of total bays (present+future bays) depicted in the Single Line Diagram (SLD) doesn't match with the Plan/Layout. Please advice. For eg. For 230KV, the no. of total bays (present+future) as per SLD is 15 the no. of total bays (present+future) as per layout is 17 For 132KV, the no. of total bays (present+future) as per SLD is 14 the no. of total bays (present+future) as per layout is 17 We would also request you to name/designate all the bays/feeders on the Plan/layout as per names used to designate bays/feeders on the Single Line Diagram (SLD).	The tender SLD and Layout are comprehensive and with future implications and those are Preliminary & are for Bidding Purpose Only. Particular requirement under this project scope shall be as per Schedule-A (scope of work) and Schedule-B (price schedule). Please follow the same for BoQ.	N								
127	Volume 2	Disconnectors and Earth Switches 3.4.6.1 General 3.4.6.4 Operation	It is specified that - The isolators shall be electrically ganged only Isolator and earthing switch shall have one drive for main blade and one drive for earthing switch.	Please confirm whether Main Blade of Disconnectors should have one motor for all the three poles or one motor for one pole.	Please see the scope of work, schedule E (GTP) and detailed technical specification (volume-2) for details of the same. In addition, some of the parameters will be provided by manufacturer during approval stage. Actual design will be finalized during execution stage upon employer's approval.	N								
128	Volume 3	Schedule E: Technical particulars & Guarantees 2.1.1 PART 7 - Control, Protection, Substation Automation & Metering	<table><tr><th>No.</th><th>Description</th><th>Min. Requirements</th><th>Guaranteed</th></tr><tr><td>1</td><td>Manufacturer</td><td>ABB SIEMENS GE SEL equivalent (Switzerland/Sweden/Germany/UK/USA / France or from other eligible countries with equivalent quality)</td><td>or</td></tr></table>	No.	Description	Min. Requirements	Guaranteed	1	Manufacturer	ABB SIEMENS GE SEL equivalent (Switzerland/Sweden/Germany/UK/USA / France or from other eligible countries with equivalent quality)	or	We understand that NR China is approved till 230KV. Hence, we can offer NR China make Protection panels till 230KV and for 400KV we can offer other make protection panels. Please confirm if our understanding is correct.	As per tender. Please follow tender requirements as stipulated therein.	N
No.	Description	Min. Requirements	Guaranteed											
1	Manufacturer	ABB SIEMENS GE SEL equivalent (Switzerland/Sweden/Germany/UK/USA / France or from other eligible countries with equivalent quality)	or											
129	Volume 3	Schedule E: Technical particulars & Guarantees 2.1.1 PART 7 - Control, Protection, Substation Automation & Metering	<table><tr><th>No.</th><th>Description</th><th>Min. Requirements</th><th>Guaranteed</th></tr><tr><td>1</td><td>Manufacturer</td><td>ABB SIEMENS GE SEL equivalent (Switzerland/Sweden/Germany/UK/USA / France or from other eligible countries with equivalent quality)</td><td>or</td></tr></table>	No.	Description	Min. Requirements	Guaranteed	1	Manufacturer	ABB SIEMENS GE SEL equivalent (Switzerland/Sweden/Germany/UK/USA / France or from other eligible countries with equivalent quality)	or	We understand that the relays shall be as per the list stated in this clause. However we can supply the panels from any manufacturer and from any country (eg India or China) using IEDs from approved factories as mentioned (ABB/SIEMENS/GE/SEL from Switzerland / Sweden/ Germany / UK / USA / France) Or We can provide panels manufactured in countries like India or China or Bangladesh facilities of ABB / Siemens / GE. Please confirm our understanding or clarify if panels have to be manufactured in BB/SIEMENS/GE/SEL from Switzerland / Sweden/ Germany / UK / USA / France.	As per the clause stated in volume-2, 5.2 Protection Relay - General 5.2.1 For standardization of operating performance, facilities and spare requirements, the protection relays and control systems, together with complete panels to be supplied under this project shall be manufactured by Hitachi (Switzerland/Sweden), Alstom/GE (France/UK/USA), Siemens (Germany), SEL (USA/UK/Canada) or equivalent. It mentioned relays & control systems together with complete panels. Please follow the same.	N
No.	Description	Min. Requirements	Guaranteed											
1	Manufacturer	ABB SIEMENS GE SEL equivalent (Switzerland/Sweden/Germany/UK/USA / France or from other eligible countries with equivalent quality)	or											



POWR GRID BANGLADESH PLC Clarification No.1, Date January 13, 2025 Design, Supply, Installation, Testing & Commissioning of 400/230/132 kV AIS Substation at Pekua and associated single /double circuit 400kV/230kV/132kV LULO Lines on turnkey basis(Package-1) (CONTRACT NO: POWERGRID/ADB/400KVPKUA/PTS/REP/PACKAGE-1/Re-Tender, Date: 03.12.2024) Pre-bid meeting was held on 26th December, 2024 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding document. Some queries were received from the prospective Bidders regarding the Bidding Documents. Clarifications on the above mentioned queries are given below, which will form part of the bidding documents.						
Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
130	Volume 3A (SS)	2. O & M training for new substations	For on-site instruction training, the contractor shall not be responsible for any costs for trainees except meal and the aforementioned onsite trainings shall have to be arranged at any Substation's respective local Grid Circle or GMD area with the consultation of Superintending Engineer, Grid Circle, PGCB. In "Schedule B4.2: Installation and Other Services" of the Price Schedule, cost of Local O&M Training are given as provisional sum. These costs are fixed ceiling and will be included in total price. But the payment shall be at actual upon submission of relevant document.	In Price Schedule B4.2, we didn't find any line item (provisional sum) for Local O&M Training. Please clarify.	As per tender. Please carefully go through the bid document. Price Schedule 4D- page 6 Price Schedule 4D.1: Installation and Other Services	N
131	Volume 3A (SS)	3. Factory acceptance tests	3. Factory acceptance tests	Please share the details of FAT like how many engineers will go for FAT, for how many days, daily allowance of each engineer etc.	Please follow the Clause No. 23: Test and Inspection, Section 7: General Conditions of Contract, Volume 1of 3 of the bidding document.	N
132	Volume 3A (SS)	Schedule E: Technical particulars & Guarantees / PART-3 Cable / 3.1 33 kV XLPE POWER CABLES	3.1 33 kV XLPE POWER CABLES Nominal Current Requirement - ≥ 2000A	As per the observation of our cable manufacturer for 33kV XLPE power cable, it is not possible to have a nominal current of 2000A or more for single core cable. Therefore, we request you to change the requirement and keep "insert" as requirement so that the bidder can select the quantity of cable (un/phase) as per the design requirement.	Single core 33kV XLPE cable is required with capacity of Nominal Current Requirement - ≥ 2000A. If required, multi-run such cables shall be offered per phase to meet the specific current requirement upon necessary employer's approval on calculation during execution stage.	N
133	Volume 3A of 3 [Substation]	PART 2 – TRANSFORMERS 2.2 230/132/33 kV, 225/300MVA, 3-PHASE POWER TRANSFORMER; Page SE64 and SE68.	230/132/33 kV, 225/300MVA, 3-PHASE POWER TRANSFORMER;	In Item 2.8, it is required that "Low voltage winding connection (LV): closed delta, with three terminals brought out outside of the tank". But in Item 5.4, the quantity of LV bushing is 4. Please confirm the quantity of LV bushing, 3 or 4.	Confirmed, the quantity of LV bushing shall be 3 nos.	N
134	Volume 3A of 3 [Substation]	PART 2 – TRANSFORMERS 2.2 230/132/33 kV, 225/300MVA, 3-PHASE POWER TRANSFORMER; Page SE65, SE67 and SE68.	230/132/33 kV, 225/300MVA, 3-PHASE POWER TRANSFORMER;	In Item 3.6.3 and 3.6.4, the insulation level for neutral and LV are different with LI 95/AC 38 and LI 170/AC 70. In Item 3.7.3 and 3.7.4, the highest voltage of neutral and LV side are both 38kV. In item 5.2.2 and 5.4.2, the voltage class of neutral bushing and LV bushing are 52kV and 38kV. Please clarify the voltage class of neutral and LV side.	HV winding: rated voltage: 230kV, max. voltage: 245kV, bushing voltage: 245kV MV winding: rated voltage: 132kV, max. voltage: 145kV, bushing voltage: 145kV LV winding: rated voltage: 33kV, max. voltage: 38kV, bushing voltage: 52kV NV winding: rated voltage: 72.5kV, max. voltage: 72.5kV, bushing voltage: 72.5kV	N

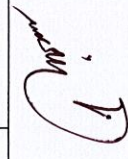





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POWR GRID BANGLADESH PLC Clarification No.1, Date January 13, 2025 Design, Supply, Installation, Testing & Commissioning of 400/230/132 kV AIS Substation at Pekua and associated single double circuit 400KV/230KV/132KV LILO Lines on turnkey basis(Package-1) (CONTRACT NO: POWERGRID/ADB400KV/PEKUA/PTSIREP/PACKAGE-1/Re-Tender, Date: 03.12.2024) Pre-bid meeting was held on 26th December, 2024 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding document. Some queries were received from the prospective Bidders regarding the Bidding Documents. Clarifications on the above mentioned queries are given below, which will form part of the bidding documents.						
Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
135	Volume 3A of 3 [Substation]	PART 2 – TRANSFORMERS 2.2 230/132/33 kV, 225/300MVA, 3-PHASE POWER TRANSFORMER; Page SE67.	Description: 230/132/33 kV, 225/300MVA, 3-PHASE POWER TRANSFORMER;	In Item 5.1.2, the class of HV bushing is 420KV. But HV side voltage of this transformer is 230KV. Please clarify.	The class of HV bushing for this Transformer shall be 245KV.	N
136	Volume 3A of 3 [Substation]	PART 2 – TRANSFORMERS 2.2 230/132/33 kV, 225/300MVA, 3-PHASE POWER TRANSFORMER; Page SE70.	230/132/33 kV, 225/300MVA, 3-PHASE POWER TRANSFORMER;	In Item 8.3, it is required that "Tap changer insulation level is Li 1050kV". Li 1050KV refers to the 245KV OLTC. According to C.F.V.V, the OLTC is at the end of the series winding, which is also the head of common winding for autotransformer. So the OLTC insulation level will not exceed 132KV, the voltage level of common winding. So Li 1050 is not reasonable. We suggest Li 650KV for the OLTC insulation, which means 145KV OLTC.	Accepted. Tap changer insulation level shall be Li 650KV.	N
137	Volume 3 of 3	Requirements: Section 1: Line Item: 1D5 and Price Schedule, Line Item: 1D6	As per the Schedule A (Requirements) & SLD, 3 sets of 33 kV Current Transformers are mentioned. But, in the price schedule, 6 nos. of 33 kV current transformers are mentioned.	Please confirm the required quantity of this item and provide the revised price schedule accordingly if required.	Confirmed, 6 nos.	N
138	Volume 3 of 3	Requirements: Section 1: Line Item: 1D5 and Price Schedule, Line Item: 1D5 and GTP, Clause 3.1 (33 KV XLPE POWER CABLES)	As per the Schedule A (Requirements) & Price Schedule, 33KV XLPE Power Cable is required for connection between Tertiary side (33KV) of Auto Transformer to Auxiliary Transformer.	As per GTP, 33KV Power cable current rating must be $\geq 2000A$. But 33KV 1-core cable can't carry 2000A current. Also Tertiary Side (33KV) side current rating is around 10Amp considering Auxiliary Transformer Rating. Bidder understanding is that 33KV power cable current rating need to revise in the GTP or if 2000amp current need to consider then multiple Run 1-core 33KV need to use. Please clarify which one to consider & if required please revise the GTP of 33KV Power cable.	"Single core 33KV XLPE cable is required with capacity of Nominal Current Requirement - $\geq 2000A$. If required, multi-run such cables shall be offered per phase to meet the specific current requirement upon necessary employer's approval on calculation during execution stage."	N
139	Volume 3 of 3	Requirements: Section 1: Scope of works		Bidder Understanding is that Remote end substation (400KV, 230KV & 132KV) any protection relay supply, SAS & DFDR integration & supply is not in present scope of this tender.	The contractor is responsible for ensuring that all and/or any item(s) of work required for the safe, efficient and satisfactory completion and functioning of the works, are included in the Bid Price whether they be described in the specification if necessary, remote end relays shall be also included in the scope of supply with necessary communication equipment. Bidders are requested to visit respective sites for existing substation's Data.	N







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POWER GRID BANGLADESH PLC Clarification No.1, Date January 13, 2025 Design, Supply, Installation, Testing & Commissioning of 400/230/132 kV AIS Substation at Pekua and associated single /double circuit 400KV/230KV/132KV LILO Lines on turnkey basis(Package-1) (CONTRACT NO: POWERGRID/ADB400KV/PEKUA/PTSIREP/PACKAGE-1/Re-Tender, Date: 03.12.2024) Pre-bid meeting was held on 26th December, 2024 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding document. Some queries were received from the prospective Bidders regarding the Bidding Documents. Clarifications on the above mentioned queries are given below, which will form part of the bidding documents.						
Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
140		General		BOQ table 1L3 shows that a complete solar lighting system is required. Please confirm whether it is a stand-alone solar photovoltaic system or a street light with a solar photovoltaic panel? We recommend using a street light with a solar photovoltaic panel since the land is currently unable to accommodate a stand-alone solar panel.	It is a stand-alone solar photovoltaic system with Complete Solar system (40KW solar panel) for substation DC lighting.	N
141		General	Factory acceptance test	Compared with the last bidding, we noticed that FAT related items were deleted from the BOQ of this bidding. Please clarify whether the owner needs to go to the factory to witness FAT. If the employer needs to come to the factory for FAT witness, please provide the following information: 1. Which Equipment need to be witnessed 2. How many people need to witness in the factory. 3. What is the daily allowance? 4. Are all transportation, travel, accommodation and allowances, etc. borne by the Contractor?	Please follow the Clause No. 23: Test and Inspection, Section 7: General Conditions of Contract, Volume 1 of 3 of the bidding document.	N
142	General	General	General	We understand that any type of fire protection system for any residential, Office, Staff Quarter, Labor Hut, Ansar Barrack etc. is not required. Please confirm.	As per tender. The present scope of work under this project shall be as per schedule A (scope of work) and schedule B (price schedule). Moreover, for detail engineering, please go through the technical specifications/ requirement in volume-2.	N
143	General	General	General	We understand that Hydrant system is not envisaged for this tender, as the same is neither mentioned in TS nor in price schedule. Please confirm	As per tender. It's included along with the water spraying system for transformer fire protection. Detail design will be finalized during execution stage upon employer's approval.	N
144	General	General	General	We understand that, conventional type Fire Detection & Alarm System shall be considered. Please confirm.	As per tender. Please follow the scope of work along with the technical specifications/requirements stated in the bid documents properly.	N
145	General	General	General	We will consider Aboveground Fire Water Tank is acceptable to maintain Flooded (Positive) Suction of Fire Water Pumps. Please confirm	As per tender. Please follow the scope of work along with the technical specifications/requirements stated in the bid documents properly. Detail design will be finalized during execution stage upon employer's approval.	N
146	General	General	General	Cooling capacity of 2TR AC unit shall not be less 22000BTU/hr. and shall have energy efficiency rating of 3 star. However, with revised BEE star rating & current availability of models from all supplier, 2TR AC unit is available with 21000BTU with 4star rating only.	As per tender. Please follow the scope of work along with the technical specifications/requirements stated in the bid documents properly. Detail design will be finalized during execution stage upon employer's approval.	N



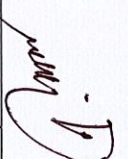
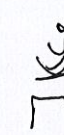
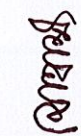






POWR GRID BANGLADESH PLC Clarification No.1, Date January 13, 2025 Design, Supply, Installation, Testing & Commissioning of 400/230/132 KV AIS Substation at Pekua and associated single double circuit 400KV/230KV/132KV LILO Lines on turnkey basis(Package-1) (CONTRACT NO: POWERGRID/ADB400K/PEKUA/PTSIREP/PACKAGE-1/Re-Tender, Date: 03.12.2024) Pre-bid meeting was held on 28th December, 2024 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding document. Some queries were received from the prospective Bidders regarding the Bidding Documents. Clarifications on the above mentioned queries are given below, which will form part of the bidding documents.						
Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
147	General			'Kindly provide dimensions (i.e Width & depth of each section) of the Canal passing through the site which may be required to be rerouted. Picture attached for your reference.	No canal rerouting is required inside the substation area.	N
148	General		Factory Acceptance Test and Foreign Training - Transmission Line	Please confirm whether FAT and Foreign Training is required for Transmission line equipment or not. If required, then please mention for which equipment FAT and Foreign Training is required. Please share the details of FAT and Foreign Training like how many engineers will go for FAT and Foreign Training, for how many days, daily allowance of each engineer etc. Also, confirm whether the local training for the transmission line equipment is required or not. If required, please provide details.	For FAT Please follow the Clause No. 23: Test and Inspection, Section 7: General Conditions of Contract, Volume 1 of 3 and clause no 18.1.11 of volume 2 of 3 (TL) of the bidding document. For transmission line related trainings please follow the clause 18.1.12.1, 22.8.4 and 22.12.7 of volume 2 of 3 (TL) bidding document.	N
149	General		Battery and Battery Charger	The country of origin for battery and battery charger is open for this tender. From a quality perspective, we request that it be changed as below as we have seen in previous ADB and other foreign funded tenders. 8.3.1.4 The complete equipment shall preferably be a Manufacturer's standard but any departure from this specification shall be subject to the approval of the Engineer. The Battery Charger with Panel & Battery shall be of Europe/USA/Japan Origin or other eligible countries with equivalent quality.	As per Tender.	N
150	General	Site visit	There are two 11kV lines in the substation area.	Bidder's understanding is the 11kV lines will be relocated by the owner. Please clarify whether the transformation of the line is included in the scope of this project.	Replacement of the 11kV Lines shall be within the scope of employer.	N
151	General	Site visit	During the site visit, we saw a canal pass through the substation area.	Bidder's understanding is no canal rerouting is necessary for this project. Please clarify.	Your understanding is correct.	N
152	General		Land Acquisition cost for Transmission Tower Foundation.	Bidder's understanding is the land acquisition for the transmission tower foundation will be done by the employer and the land price will be paid by the employer. Please confirm our understanding.	The Employer shall give administrative support only to accord all rights of access for transmission line thereto and will not take responsibility for acquiring and providing legal and physical possession of the sites and access thereto. Land acquisition cost of tower footing shall be borne by employer with the cooperation of the contractor and from the relevant RP implementation consultant where its needed. Therefore, you are advised to follow the bid document.	N
153	General		River morphological study.	Is there any necessity for river morphological study for transmission lines? Please clarify.	Please follow clause no 6.8 volume 2 of 3 (TL) of bidding document.	N
154	General/Property Line Demarcation		Property line demarcation.	There is no line item of property line demarcation in the price schedule. Please add a line item of property line demarcation if required for this project.	Property line demarcation will not be used in this project.	N




POWR GRID BANGLADESH PLC Clarification No.1, Date January 13, 2025 Design, Supply, Installation, Testing & Commissioning of 400/230/132 KV AIS Substation at Pekua and associated single double circuit 400KV/230KV/132KV LILO Lines on turnkey basis(Package-1) (CONTRACT NO: POWERGRID/ADB/400KV/PEKUA/PTSIREP/PACKAGE-1/Re-Tender, Date: 03.12.2024) Pre-bid meeting was held on 28th December, 2024 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding document. Some queries were received from the prospective Bidders regarding the Bidding Documents. Clarifications on the above mentioned queries are given below, which will form part of the bidding documents.						
Serial No.	Volume	Section/Clause No.	Clause Description	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
155	Addendum-1/Attachment-2 / 1K.1 ii) a.	Slope Protection	Quantity - 1 lot	We request to provide the quantity of the slope protection	Please Follow the Addendum-1.	Y
156	SS Part Related Drawings			There are 15 set of 230KV DS for transformer bay in the BOQ, but 12 set of 230KV DS and 3 set of 230KV DS/ES for transformer bay in the single line drawing, please confirm.	DS with ES for both HV & LV side of all Transformers have been considered subsequently. Relevant BoQ (price schedule & scope of work) and SLD have been modified accordingly. Necessary addendum (Addendum-01) is attached with the clarifications.	Y
157	SS Part Related Drawings			There are 21 set of 230KV surge arrester in the BOQ, but 30 set of 230KV surge arrester in the single line drawing, please confirm.	As per Tender. The tender SLD is Preliminary & is for Bidding Purpose Only. Particular requirement under this project scope shall be as per Schedule-A (scope of work) and Schedule-B (price schedule).	N
158	SS Part Related Drawings			There are 6 set of 132KV DS for transformer bay in the BOQ, but 4 set of 132KV DS and 2 set of 132KV DS/ES for transformer bay in the single line drawing, please confirm.	DS with ES for both HV & LV side of all Transformers have been considered subsequently. Relevant BoQ (price schedule & scope of work) and SLD have been modified accordingly. Necessary addendum (Addendum-01) is attached with the clarifications.	Y
159	SS Part Related Drawings			There are some 230KV structure tower in the substation electrical general layout (as per the blue box in the following picture), but there is no any related drawing about this tower, please provided.	It is in the bidders responsibility to design and construction of these structures. Detailed will be finalized during execution stage.	N
160	Transformer fire-fighting		Pump house	Is there any necessity for a pump house for transformer fire-fighting? Please clarify.	Yes. Pump house is required. Please follow the scope of work along with the technical specifications/requirements stated in the bid documents properly. Detail design will be finalized during execution stage upon employer's approval.	N

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