

POWER GRID BANGLADESH PLC Clarification No. 01 (June 24, 2026) The Name of the Open Competitive Bidding: Design, Supply, Installation, Testing & Commissioning of 132/33 kV AIS Substations at Dhupchanchia, Kumarkhali, Matlab North and Chatkhil including associated 132KV bay extension at Kachua Substation on turnkey basis (Package-4) OCB No. : POWERGRID/ADB/PTSIREP/Package-4					
Pre-bid meeting was held on 08 June, 2026 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding documents. Some queries were received from the prospective Bidders regarding the Bidding Documents. Clarifications on these queries are given below, which will form part of the bidding documents.					
S.N.	Volume	Section/ Clause Reference	Bidder's Query	Power Grid's Reply	Addendum Yes(Y)/No(N)
1	Volume 1 of 3	Section 4: Bidding Forms / Form ELI - 2: Joint Venture Information Sheet	Description: Form ELI - 2: Joint Venture Information Sheet Each partner of the Joint Venture and Specialist Subcontractor must fill out this form separately Subcontractors are those listed in Technical Proposal – Proposed Subcontractors and/or Manufacturers for Major Items of Plant and Services Bidder's Query: As per as bidder's understanding the form "Form ELI - 2: Joint Venture Information Sheet" is only applicable for Joint venture/Consortium partner, it is not for subcontractor or manufacturers. Please confirm bidder's understanding is correct.	Please follow the Bidding Document.	N
2	Volume 1 of 3 and Volume 3 of 3	Tender Volume 1 / Section 4: Bidding Forms / Proposed Subcontractors and/or Manufacturers for Major Items of Plant and Services and Volume 3 / Schedule D: Manufacturers, Places of Manufacture and Testing	Description: Volume 1 - Section 4: Bidding Forms - Proposed Subcontractors and/or Manufacturers for Major Items of Plant and Services Volume 3 - 4, Schedule D: Manufacturers, Places of Manufacture and Testing Bidder's Query: We are considering "Schedule D: Manufacturers, Places of Manufacture and Testing". Do we still need to consider Proposed Subcontractors and/or Manufacturers for Major Items of Plant and Services of volume 1. Please clarify.	You are required to submit both ensuring that the information provided is identical. Schedule D: Manufacturers, Places of Manufacture and Testing of Volume 3 of 3 is updated.	Y
3	Volume 1 of 3	Section 6 / 8. Personnel Requirement	Description: Regarding Personnel Requirement Key Personnel as determined by the EMP and other safeguard management plans Bidder's Query: 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 fulfil the requirements as mentioned in the Environmental Management Plan (EMP). Section-4 & Section-6 of Volume-1 of 3 of the Bidding Documents.	N

Sanjeev *[Signature]* *[Signature]*

4	Volume 1 of 3	Section 3: Evaluation and Qualification Criteria / 2.6 Subcontractors / Current Transformer (AIS) 145kV and 36kV and Section 6: Employer's Requirement / Type Test Requirements for Major Equipment (For Substation Part)	Description: Current Transformer (AIS) 145kV and 36kV i. 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 equipment iii. At least one evidence from end users for satisfactory service of similar or higher rating equipment for a minimum of three (3) years outside manufacturer's country or in employer's country as on the date of bid opening. v. Satisfactory Type test reports as per Section-VI of volume-1 of 3 of the bidding Document for similar or higher rating equipment Type Test Requirements for Major Equipment (For Substation Part) Following type test certificates of the major equipment of similar or higher specifications (voltage, short circuit rating & capacity) required by the bid shall be submitted as per relevant IEC Standard. Bidder's Query: As per bidder's understanding, for current transformers, for ten (10) years manufacturer's experience, end user certificate and Type Test Report, only similar or higher voltage level will be acceptable, current rating or current ratio will not be considered for evaluation. As you know the type test is conducted on a single representative current ratio configuration. It is neither technically feasible nor economically viable to generate type test reports for every possible current ratio variation, Prior to product delivery, manufacturers performs rigorous current ratio verification and ratio error measurements on each unit to ensure compliance with specified accuracy requirements. Therefore, please confirm bidders understanding is correct.	Please follow the Bidding Documents.	N
5	Volume 1 of 3	Section 7 & Section 8 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 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 physical possession of the 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. The employer through its Environmental and Social Unit and Social Safeguard Consultant(s) shall be responsible for overall implementation of the resettlement plan (RP) and other corresponding social management plans (Labor Management Plan, Stakeholder Engagement Plan, and Gender-based Prevention Plan) in a timely manner, and shall collaborate closely with the contractor to implement the RP and corresponding plans.	This Contract covers the construction of substations. The Bidder understands that "The Employer shall be responsible for acquiring and providing legal and physical possession of the substation sites and access thereto, and for providing possession and access to all other areas reasonably required for the proper execution of the Contract, including all requisite rights of way, at the cost of the Employer. Supply by the Employer) to the Contract Agreement. The Employer shall give full possession of and accord all rights of access thereto timely to satisfy the construction of the Contractor." Please confirm our understanding.	Please refer to Addendum-1.	Y
6	Volume 1 of 3	Section 7 & Section 8 Land acquisition	The Bidder understands that land acquisition for all the substations under the Contract is completed and the lands are currently under the control of the Employer. Please confirm our understanding.	The site shall be handed over after signing of the contract.	N

Sanka

[Signature]

[Signature]

7	Volume 1 of 3	Section 7 & Section 8 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.	The Bidder makes the suggestions as follows: The Employer shall acquire and pay for all permits, approvals, and/or licenses from all 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 the Employer to obtain in the Employer's name, (b) are necessary for the 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 relevant cost shall be borne by the Employer. Please accept our suggestions.	Please follow the Bidding Documents.	N
8	Volume 1 of 3	Section 9 Contract Agreement 3.1 Effective Date (Reference GCC Clause 1) The Effective Date upon which the period until the Time for Completion of the Facilities shall be counted from is the date when all of the following conditions have been fulfilled: (a) This Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor. (b) The Contractor has submitted to the Employer the performance security and the advance payment guarantee. (c) The Employer has paid the Contractor the advance payment. Each party shall use its best efforts to fulfill the above conditions for which it is responsible as soon as practicable.	The issue of Letter of Credit is not covered under the conditions for Effective Date. Please clarify the time limit for issuing the Letter of Credit.	Please follow the Bidding Documents.	N
9	Volume 1 of 3	Section 6: Employer's Requirements Page 6-2 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 confirm whether the report of tests conducted in a third-party well-known independent laboratory and have been witnessed and certified by a representative from STL member testing laboratories is acceptable.	Please follow the Bidding Documents.	N

Santhosh  

10	Volume 1 of 3	Section 8: Special Conditions of Contract SCC 40. Extension of Time for Completion 40. Extension of Time for Completion The following texts shall be added at the end of GCC Clause 40.1 as 40.1 (h): For any other time extension (including provisions regarding liquidated damages) given beyond the provisions of 40.1, in such cases the right of Power Grid to impose Liquidated Damages (LD) and other rights set forth in the Contract Document will remain the same without prejudice. 40. Extension of Time for Completion 40.1 The Times for Completion specified in the SCC shall be extended if the Contractor is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following: (a) any change in the Facilities as provided in GCC Clause 39; (b) any occurrence of Force Majeure as provided in GCC Clause 37, unless the conditions as provided in GCC Clause 39, or other occurrence of any of the matters specified or referred to in paragraphs (a) to (g) of GCC Sub-Clause 40.2; (c) any suspension order given by the Employer under GCC Clause 41 hereof or reduction in the rate of progress pursuant to GCC Sub-Clause 41.2; or (d) any changes in laws and regulations as provided in GCC Clause 36; or (e) any default or breach of the Contract by the Employer, or any active act or omission of the Employer, or the Project Manager, or any other contractors employed by the Employer; or (f) any other matter specifically mentioned in the Contract; or (g) any delay on the part of a sub-contractor, provided such delay is due to a cause for which the Contractor himself would have been entitled to an extension of time under the Sub-Clause. by such period as shall be fair and reasonable in all the circumstances and as shall fairly reflect the delay or impediment sustained by the Contractor. 40.2 Except where otherwise specifically provided in the Contract, the Contractor shall submit to the Project Manager a notice of a claim for an extension of the Time for Completion, together with particulars of the event or circumstance justifying such extension as soon as reasonably practicable after the commencement of such event or circumstance. As soon as reasonably practicable after receipt of such notice and supporting particulars of the claim, the Employer and the Contractor shall agree upon the period of such extension. In the event that the Contractor does not accept the Employer's estimate of a fair and reasonable time extension, the Contractor shall be entitled to refer the matter to a Dispute Board pursuant to GCC Sub-Clause 46.3. 40.3 The Contractor shall at all times use its reasonable efforts to minimize any delay in the performance of its obligations under the Contract. In all cases where the Contractor has given a notice of a claim for an extension of time under GCC 40.2, the Contractor shall consult with the Project Manager in order to determine the steps if any which can be taken to overcome or minimize the actual or anticipated delay. The Contractor shall then comply with all reasonable instructions which the Project Manager shall give in order to minimize such delay. In compliance with such instructions, shall cause the Contractor to incur extra costs and the Contractor is entitled to an extension of time under GCC 40.1. The amount of such extra costs shall be added to the Contract Price.	SCC Clause 40 states that, for delays not falling within the circumstances specified under GCC Sub-Clause 40.1, the Employer's rights and remedies under the Contract shall remain unaffected. Kindly clarify: (a) the scope of such rights and remedies; (b) whether the Contractor may be held liable for claims, penalties, damages or liabilities imposed on the Employer by any third party due to delay in completion; (c) whether such liability is limited to Delay Liquidated Damages specified in the Contract; and (d) whether any limitation of liability or liability cap is applicable.	Please follow the Bidding Documents.	N				
11	Volume 1 of 3	Section 9 Contract Agreement, Appendix 6	No time is given in the Appendix for the Scope of Works of the Employer. Please give the details.	Please follow the Bidding Documents.	N				
12	Volume 1 of 3 BOQ	Schedule 4: Installation and Other Services Schedule 4_35 of 37 <table><tr><td>at</td><td>Scale 1/1000000000</td><td>mm</td><td>600</td></tr></table>	at	Scale 1/1000000000	mm	600	Could you confirm where this slope protection quantity is designated for? The expansion is carried out on a fully leveled existing site, so this work item should not appear in the bill of quantities.	Please refer to addendum-1	Y
at	Scale 1/1000000000	mm	600						
13	Volume 1 of 3 BOQ	Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad Item 6.4.8 Spare transformer oil (1 barrel equivalent 200 to 210 Liter), Quantity 600 Barrel	The required quantity of transformer oil here is 600 barrels, with each barrel holding 210 liters, totaling 126,000 liters. This volume is even greater than the oil capacity of the transformer itself. Normally, the spare transformer oil should account for 10% of the oil used of the transformer. This quantity is unreasonable, please clarify	As per BOQ. This quantity is required for all the transformers of four new substations.	N				










14	Volume 1 of 3 BOQ	1F7,2F7,3F7,4F7	"additional BCUs to control 5 (five) nos. 33kV outgoing feeders from NLDC." We reckon this is a clerical error. The 33kV feeder panels can be controlled by reserved future PBCUs, so there is no need to arrange separate BCUs for control, please confirm.	Control and monitoring facility of 5 nos. 33 kV outgoing feeders are within the scope of work. 33KV feeders will be built by the distribution authority. During the execution stage, if the 33KV feeder is not available, then the EPC shall temporarily install the BCUs panel at the grid control room and test the feeder control from NLDC using a dummy breaker.	N
15	Volume 1 of 3 BOQ	1I,2I,3I,4I	AC UPS inverter is missing in BOQ	Please refer to 1F, 2F, 3F, 4F clauses of Volume 3 Schedule A.	N
16	Volume 1 of 3 BOQ	1K5,2K5,3K5,4K5	The BOQ only covers the fire protection system of transformers. We confirm that fire-fighting facilities in the main control room, including smoke detectors, heat detectors and other related equipment, are not included in the scope of this tender. please confirm.	As per Clause 11.7 of Volume 2, the fire-fighting facilities in the main control room, including smoke detectors, heat detectors and other related equipment, are included in the scope of this tender.	N
17	Volume 1 of 3 BOQ	BOQ: 1F.6, 2F.6, 3F.6, 4F.6, 5F.2	Meters (One meter for each 132KV feeder)" is stated in the BOQ, but two meter(main+check) are shown in the drawings. Please confirm how many tariff meters shall be provided for 132kV transformer bay, 132kV Line bay and 33kV bay.	As per BOQ.	N
18	Volume 1 of 3 BOQ	BOQ: 1F11, 2F.11, 3F.11, 4F.11	(a) There are 2 nos meters for 33kV in the 1F11, 2F.11, 3F.11, 4F.11 (a) we believe the are provided for 33kV incomer of 132/33kV transformers. Please confirm. (b) Please clarify whether we shall provide tariff meters for 33kV outgoing feeders and auxiliary transformer feeders bays. And how many outgoing feeders in 33kV side, may be five?	Yes, confirmed. Tariff meter for 33kV side of auxiliary transformers are not under scope of this contract.	N
19	Volume 1 of 3 BOQ	BOQ: 1F7, 2F.7, 3F.7, 4F.7	Additional BCUs to control 5 (five) nos. 33kV outgoing feeders from NLDC. Please confirm the protection relay for 33kV bus section and outgoing feeders is not in the scope of work. Description of question: Although, additional BCUs to control 5 (five) nos. 33kv outgoing feeders form NLDC are required as per schedule-1. But as per tender SLD, there is no 33kV outgoing feeders. Please confirm whether it is required or not? if required the share the SLD of outgoing feeders. Also does it mean 5 nos BCU required?	Control and monitoring facility of 5 nos. 33 kV outgoing feeders are within the scope of work. 33KV feeders will be built by the distribution authority. During the execution stage, if the 33KV feeder is not available, then the EPC shall temporarily install the BCUs panel at the grid control room and test the feeder control from NLDC using a dummy breaker.	N
20	Volume 1 of 3 BOQ	BOQ: 5F.3	Extension of existing Busbar Protection Panel Description of question: Kindly provide the details of the existing busbar protection relay, including the make, model, and firmware version for both the Bay Units and the Central Unit. This information is required to verify compatibility and to identify the appropriate relay model for the proposed busbar protection application.	Central Unit- REB500 7.5, Bay Unit- REB500 BU03, Make- ABB/HITACHI, Double Busbar Scheme.	N

Sankar

Sigara

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

21	Volume 1 of 3 BOQ	section-4 Bidding Forms	Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad itm (1F.1 2F.1, 3F.1,4F.1,(a)) all protection relay (Main-1 , Main 2/backup, BBP Bay unit) Description of question: There is mention all protection relay(Main 1, Main 2/backup, BB bay unit) for line bay. Here, what does mean by "Main 2/Backup"? Doesit mean ' Main 2 or Backup' or Main 2 as Backup'? Please confirm. Also note as per Section 5: Protection, Metering and Control Including Substation Automation 5.9 Overhead Line Protection Clause No: 5.9.1.1: The Main & Back-up protection of 132kV 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. With the above requirements we understand that we need provide the overhead line protection with main protection & Back up protection,Main-2 protection is not required. Please confirm.	Two Differential / Distance relay (Main1 & Main2 as backup) with required function shall consider for each line bay and transformer bay as per PSLD.	N
22	Volume 1 of 3 BOQ	section-4 Bidding Forms	Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad itm (1F.3 2F.3, 3F.3,4F.3,(a)) all protection relay (Main-1 , Main 2/backup, BBP Bay unit) Description of question: There is mention all protection relay(Main 1, Main 2/backup, BB bay unit) for line bay. Here, what does mean by "Main 2/Backup"? Doesit mean ' Main 2 or Backup' or Main 2 as Backup'? Please confirm. we understand that we need provide the bus coupler protection with main protection & Back up protection,Main-2 protection is not required. Please confirm.	Two Differential / Distance relay (Main1 & Main2 as backup) with required function shall consider for each line bay and transformer bay as per PSLD.	N
23	Price Schedule Volume 3 of 3	1E.2,2E.2,3E.2,4E.2-33/0.415 kV, 300kVA Earthing auxiliary Transformer	Please provide the short-circuit impedance & bushing CT detailed parameters of the EARTHING/AUXILIARY TRANSFORMERS.	The item is AUXILIARY TRANSFORMER. Please refer to addendum-1.	Y
24	Price Schedule	1D1.2, 2D1.2,3D1.2,4D1.2-Two (2) sets of 36kV, 800A, 31.5 kA/1 sec, 50Hz, 170kVp BIL, single vertical break, post type, motor operated disconnectors with dropout fuse.	Please provide the detailed technical specifications and parameter sheet for the 36 kV disconnector with dropout fuse. We believe this is a dropout fuse that cannot be operated electrically; please confirm.	Disconnector Switch with integrated fuse is our requirement. The motor opreated option is applicable only for disconnector.	N
25	Price Schedule Volume 3 of 3	1E.2,2E.2,3E.2,4E.2	We consider 300kVA is capacity of secondary winding,The primary winding should include grounding capacity. Please clarify the capacity of the primary winding or clarify the neutral point current and duration. This will affect the price of the grounding transformer	The item is AUXILIARY TRANSFORMER. Please refer to addendum-1.	Y
26	Price Schedule Volume 3 of 3	1E.1,2E.1,3E.1-132/33 kV, 50/75 MVA (ONAN/ONAF), three phase Power Transformer	The parameter sheet for 80/120 transformers specifies the type and brand of bushings. Please confirm whether the same requirements shall be applied to 50/75 transformers.	Yes, confirmed.	N
27	Price Schedule Volume 3 of 3	4E.1-80/120 MVA (ONAN/ONAF), three phase Power Transformer	Kindly Provide Current Rating & CT Ratio for bushing Current Transformers.	As per GTP, these shall be defined in design stage.	N

Sanjeev

Sanjeev

[Signature]

[Signature]

[Signature]

[Signature]

28	Volume 1 of 3 Price Schedule	Dupchanchia 132/33kV AIS Substation/Kumarkhali 132/33kV AIS Substa	Description: RCC pipe culvert at approach road. Bidder's Query: No technical information for the pipe culvert has been provided. Please specify the culvert length, pipe diameter, and pipe length, and provide the reference drawings of the pipe culvert for review.	The diameter of the pipe culvert shall be determined based on the discharge and hydraulic requirements of the watercourse. Preparation of the detailed design and construction drawings for the pipe culvert shall be the responsibility of the bidder and shall be finalized during the execution phase.	N
29	Volume 1 of 3 Price Schedule	Matlab (N) 132/33kV AIS Substation/Schedule 4/Civil Works, Building and	Description: RCC box culvert at approach road. Bidder's Query: No technical information for the box culvert has been provided. Please specify the culvert length, and provide the reference drawings of the box culvert for review.	The minimum length of the box culvert shall be equal to the width of the canal at the approach road. Preparation of the detailed design and construction drawings for the box culvert shall be the responsibility of the bidder and shall be finalized during the execution phase.	N
30	Volume 1 of 3 Price Schedule	Chatkhil 132/33kV AIS Substation/Schedule 4/Civil Works, Building and P	Description: RCC deck girder bridge at approach road. Bidder's Query: No technical information for the RCC deck girder bridge has been provided. Please specify the bridge length, and provide the reference drawings of the RCC deck girder bridge for review.	The minimum length of the RCC deck girder bridge shall be equal to the width of the canal at the approach road. Preparation of the detailed design and construction drawings for the RCC deck girder bridge shall be the responsibility of the bidder and shall be finalized during the execution phase.	N
31	Volume 1 of 3 Price Schedule	BOQ: 1F.6, 2F.6, 3F.6, 2, 4F.6, 5F.2,	Description: BOQ: 1F.6, 2F.6, 3F.6, 2, 4F.6, 5F.2. Bidder's Query: As per Technical Specification & Bill of quantity, Meters (One meter for each 132KV feeder) is stated, but in the drawing 2 meters (Main & Check) are shown. Please confirm how many tariff meters need to be provided for each feeder such as 132kV Line, Transformer & 33kV Bay.	As per BOQ.	N
32	Volume 1 of 3 Price Schedule	BOQ: 1F.11, 2F.11, 3F.11, 4F.11	Description: BOQ: 1F.11, 2F.11, 3F.11, 4F.11 Bidder's Query: As per BOQ, There are 2 nos meters for 33kV Tariff metering. Please confirm, they are provided for 33kV Incomer feeder of 132/33kV transformer only. As per our understanding 33kV outgoing feeders and auxiliary transformer feeder bays are not under this scope.	Yes, confirmed.	N

Saib

Sujan

33	Volume 1 of 3 Price Schedule	BOQ: 1F.7, 2F.7, 3F.7, 4F.7	Description: BOQ: 1F.7, 2F.7, 3F.7, 4F.7 Bidder's Query: As per BOQ, additional BCUs to control 5 (five) nos. 33kV outgoing feeders from NLDC,. Please confirm that the protection Relay for 33KV Bus section and outgoing feeders are not in this scope.	Control and monitoring facility of 5 nos. 33 kV outgoing feeders are within the scope of work. 33KV feeders will be built by the distribution authority. During the execution stage, if the 33KV feeder is not available, then the EPC shall temporarily install the BCUs panel at the grid control room and test the feeder control from NLDC using a dummy breaker.	N
34	Volume 1 of 3 Price Schedule	BOQ: 5H	Bidder's Query: As per the Tender Document, extension and strengthening of the existing earthing system for the two new 132 kV bays is included in the scope of work. However, no details of the existing earthing system have been provided in the tender documents. Please share the existing information of Earthing System to estimate the scale of requirement.	Bidders are requested to assess the earthing system for two nos of bay extension of 132KV switchyard. During the stage of detail design it will be finalized based on calculation.	N
35	Volume 1 of 3 Price Schedule	BOQ: 5I, 5J	Bidder's Query: As per the tender document, the scope includes the extension of the ACDB and Power Factor Correction (PFC) plant at the 415 V bus, as well as the DCDB. However, the existing information / SLD is not provided. Please share the existing SLD of ACDB & DCDB System to estimate the scale of requirement.	Bidders are requested to visit the site to collect existing system information and estimate accordingly as per tender.	N
36	Volume 2 of 3	Section 18	Please confirm whether the long-term scale of Dhupchanchia substation and Kumarkhali substation is four main transformers and five circuits of 132kV outgoing line bays. (The sections marked with a red box represent the future expansion works.)	As per Volume 3 Schedule A, additional bus skeleton, gantry column and beam including earth mat shall be made for future extension of three overhead 132kV line/ transformer bays for each new substation. The future firewalls and future main transformer frameworks at the main transformer area are not included in the scope of this current contract.	N

Sanku

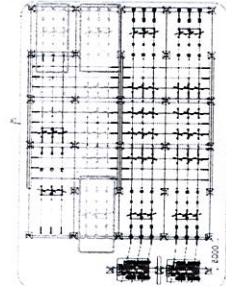
Sujana

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

37	Volume 2 of 3	Section 18	Please confirm whether the long-term scale of Matlab North substation and Kumarkhali substation is three main transformers and four circuits of 132kV outgoing line bays. (The sections marked with a red box represent the future expansion works.) 	As per Volume 3 Schedule A, additional bus skeleton, gantry column and beam including earth mat shall be made for future extension of three overhead 132kV line/ transformer bays for each new substation. The future firewalls and future main transformer frameworks at the main transformer area are not included in the scope of this current contract.	N
38	Volume 2 of 3	Section 18	(The sections marked with a red box represent the future expansion works.) As indicated in the attached drawing, the layout reserves space for two future transformer bays and one future outgoing line bay. However, the designated transformer area currently appears to accommodate only one main transformer. To resolve this discrepancy, we request the Employer to explicitly confirm the final ultimate scale and provide the revised Single Line Diagram (SLD) and General Layout Drawing (GLD). 	As per Volume 3 Schedule A, additional bus skeleton, gantry column and beam including earth mat shall be made for future extension of three overhead 132kV line/ transformer bays for each new substation. The future firewalls and future main transformer frameworks at the main transformer area are not included in the scope of this current contract.	N

Saikat

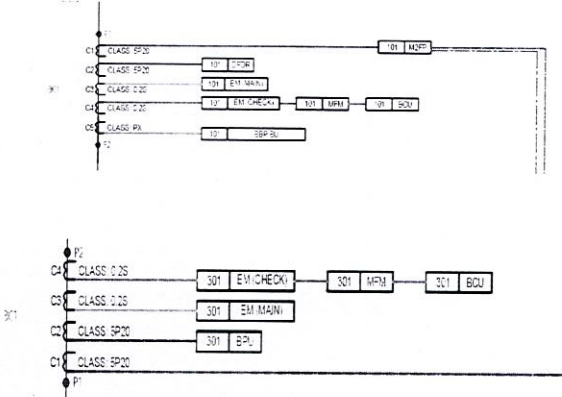
Sujana

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

39	BOQ Volume 2 of 3	1F.6, 2F.6, 3F.6, 4F.6, 5F.2, 1F.11, 2F.11, 3F.11, 4F.11	"One meter for each 132KV feeder" "One meter for each 33KV feeder" are stated in the BOQ, but two meters (main+check) are shown in the drawings. Please Confirm how many tariff meters shall be provided for 132kV transformer bay, 132kV line bay, and 33kV bay. 	As per BOQ.	N
40	Volume 2 of 3 Volume 3 of 3	Volume2:1.1; Volume3:page 3	Please clarify that the 33kV bus coupler protection and control devices are not included within the scope of this tender.	Yes, confirmed.	N
41	Drawing	KACHUA	New extended line bays are configured on the substation single-line diagram for connection to Comilla (South) and Comilla (North). We confirm that the protection control cabinets for the two circuits of Comilla Substation adopt the newly erected panels in this phase expansion, while the protection control cabinets for the two circuits of Matlab Substation shall use the existing ones.	Your understanding is correct.	N

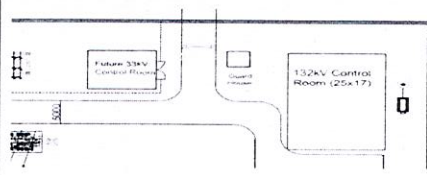
Saidur Sujana

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

42	Drawing	All New substation	Please clarify whether the 33kV protection&control cabinet of the 132kV main transformer can be installed inside the 132kV Control Building.  in addition, the scope of work of this contract includes: Redesign, relocation, modification and reconnection and testing of the two (2) existing 132 kV overhead line bay (Comilla South & Comilla North) for connection of the new 132kV Matlab (N)-1 & Matlab (N)-2 double circuit line. The existing 132kV Comilla South & Comilla North circuit shall be connected with two (2) new 132 kV bays. The existing Comilla-Kachua 132kV TL shall be terminated at new gantry from new Terminal Tower. Shifting of the Comilla-Kachua TL, necessary bypass, new tower installation and existing tower dismantling etc. shall be in the scope of this contract. Dismantling of existing structure and road in the area of scope is also included.	Yes, confirmed.	N
43		KACHUA	Please provide this substation's SAS architecture diagram with the 230kV section included.	Manufacturer of SAS is Hitachi Switzerland (Former ABB). Existing SAS architecture is RSTP in Station level and Starline mode in Bay level. Additional switches and extension of necessary license for servers with reconfiguration shall be in scope.	N
44	Volume 2 of 3		According to the fire protection system requirements: Water Spray type Fire Fighting for the 132/33KV 50/75MVA ONAN/ONAF & 132/33KV 80/120MVA ONAN/ONAF transformer is not applicable. Please confirm if our understanding is correct, and clarify exactly what fire fighting system are required ? 4.18 FIRE PROTECTION SYSTEM (Not Applicable) 4.18.1 General This Sub-clause covers the design and performance requirements of: Water Spray type Fire Fighting for the 132/33KV 50/75MVA ONAN/ONAF & 132/33KV 80/120MVA ONAN/ONAF transformer.	Fire fighting for transformer is not in the scope of project.	N
45	Volume 2 of 3	13.30.4 Mechanical Ventilation	Original tender documents: "Supply air handling plants shall consist of a sand trap fresh air intake louver, insect screen, pre-filter, bag filter, electric air heater battery, fan and distribution ductwork." Please clarify whether air intake louver with filter screen can be used to replace the air supply air handling plants ?	As per Bidding Document.	N

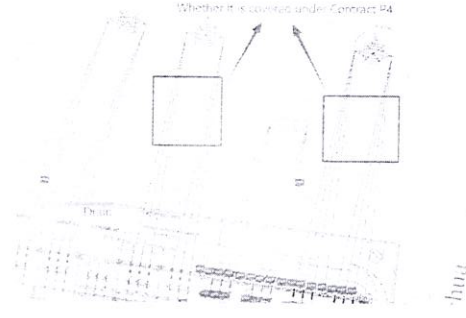
Saito Sijana

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

49	Volume 3 of 3	Schedule A (DESCRIPTION OF WORKS PART)	In the bidding documents, in addition to the description of constructing two new outgoing line bays for the expansion works of Kachua Substation, there are the following additional contents:  After reviewing and understanding the above contents, several points still need to be clarified by the Employer. 1) Please clarify whether the electrical equipment and foundations of the existing two outgoing line bays intended to connect the new 132kV Matlab (N)-1 & Matlab (N)-2 double-circuit line need to be dismantled and replaced. 2) Please clarify the maximum transmission capacity in amperes for the existing 132kV Comilla South & Comilla North circuit line and the new 132kV Matlab (N)-1 & Matlab (N)-2 double-circuit line. 3) Please clarify whether the off-station overhead line part (with the outgoing line gantry as the boundary) of the new 132kV Matlab (N)-1 & Matlab (N)-2 double-circuit line is covered in this tender scope.	1) No. 2) The existing 132kV Comilla South & Comilla North circuit line are of ACCC Linnet conductor and the new 132kV Matlab (N)-1 & Matlab (N)-2 double-circuit line are of ACSR Grossbeak conductor. 3) Yes. 4) Yes. 5) Line bay-SINGLE ACSR GROSBEAK, Busbar-Twin ACSR FINCH	N
50	Volume 2 of 3 Volume 3 of 3	Creepage Distance	We understand the Minimum creepage distance of all Outdoor AIS Equipments of 132kV are 25mm/kV and for 36kV Equipments 31 mm/kV-Kindly confirm	Yes, confirmed.	N
51	Volume 2 of 3	The OLTC shall be of Vacuum type. Current making and breaking switches associated with the tap selectors or otherwise where combined with tap selectors shall be contained in a tank in which the head of oil is maintained by means completely independent of that on the transformer itself. Details of maintaining oil separation, oil levels, detection of oil surges and provision of alarm or trip contacts will be dependent on the design of tap-changer and be to the approval of the Engineer.	As per Technical Specification 4.7.2 requires vacuum-type OLTC and an online oil filtering device. Vacuum-type OLTCs are not compatible with online oil filters. We do not propose the online oil filtering device.	Online oil filtering device is not required.	N
52	Volume 2 of 3		Please clarify the corrosion protection level (or distance from the sea). Do the environmental conditions specified in the technical requirements apply to the five substations?	Please refer to addendum-1 for the boundary co-ordinates of the new substations to get further information regarding your query.	Y

53	Volume 2 of 3	Energy meter	Please clarify which type of energy meter is allowed in the grid.	Please refer to Volume 2 Section 5 (clause no. 5.30)	N
54	Volume 2 of 3	Energy meter	According to the BOQ, we assume that energy meter is not needed for bus coupler bay, please confirm.	Yes, confirmed.	N
55	Volume 2 of 3	SCADA in NCC	Please clarify the type and manufacture of SCADA system in NCC.	GE Vernova's e-terra platform 3.4,	N
56	Volume 2 of 3	NMS	Please clarify the type and manufacture of network management system in NCC	Two Communication Network Management System in Powergrid. 1. iMaster NCE-T (Huawei). 2. Foxman UN (Hitachi Energy)	N
57	Volume 2 of 3	Remote end substation	As we need provide line differential protection relay and it should match with the one in remote end substation. Please clarify the type and manufacture of line protection relay in remote end substation (Bogra, Naogaon, Bheramara, Rajbari, Kachua, Ramganj, Chowmuhani, Comilla(South and North))	No line differential protection relay available in remote end substation.	N
58	Volume 2 of 3	Section 18 Drawings	Please provide the boundary coordinates for the new substations at Dhupchanchia, Kumarkhali, Matlab North and Chatkhil.	Please refer to addendum-1.	Y
59	Volume 2 of 3	13.30.2 Heating & 13.30.5 Basis for Design	According to the specification, electric heating shall be installed in all rooms of the building. Except for the battery room, the heating system shall adopt 1500 mm long tubular heaters with a power rating of 60 watts per 300 mm, arranged in double tiers. However, as the minimum ambient shaded temperature is 4 °C, electric heating is not required. Please confirm	Yes, confirmed.	N
60	Volume 2 of 3	Section 18 Drawings	Please provide the drawing for Tower 1DT6 so that we can clarify the relevant works.	Drawing for Tower 1DT6 has been attached with Addendum-1.	Y
61	Volume 2 of 3	4.18 Fire Protection System	According to the specification, the water spray fire protection system is not applicable to the 132/33kV, 50/75MVA ONAN/ONAF transformers. Please confirm.	Yes, confirmed.	N
62	Volume 2 of 3	11.3.1 Architectural and Structural Requirements of Buildings	The Ansar Barrack and attached carport do not require fire/heat detectors or portable fire extinguishers. Please confirm.	Fire protection for the ansar barrack and carport is not in the scope of project.	N
63	Volume 2 of 3	Energy meter	Please confirm that for 132kv line bay, the quantity of energy meter is one for each bay.	Yes, confirmed.	N
64	Volume 2 of 3	low voltage cable	In the bidding document, it requires low smoke PVC oversheath. However, for control building, it requires zero halogen oversheath. Please confirm that the oversheath of low voltage cable to control building should be XLPE.	Yes, confirmed. All outdoor XLPE cable shall be with UV resistant feature.	N
65	Volume 2 of 3	line protection relay	Please clarify the configuration of 132kV line protection is two differential relay as shown in drawing, or one main distance protection relay + one backup relay.	Two Differential / Distance relay (Main1 & Main2 as backup) with required function shall consider for each line bay and transformer bay as per PSLD.	N

Sanika

~~SK~~

Bah



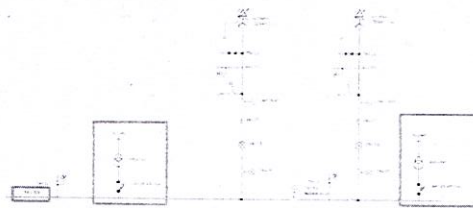
66	Volume 2 of 3	communication equipment	If we supply new communication equipment for remote end substation, but there is no space in existing communication room such as bogura substation. Please confirm we can install new panels in relay room.	For remote end substation old communication equipment panel shall be replaced with new panel or shall be installed in another substation as per requirement of Communication Department of Powergrid.	N
67	Volume 2 of 3	marshalling box	Please clarify if we need to provide separate marshalling box for CT and PT of each bay.	Not necessarily.	N
68	Volume 2 of 3	Dhupchanchia 132/33kV AIS Substation&Kumarkhali 132/33kV AIS Substation	During the site visit, we discovered that the 11kV power line traverses the substation boundary. However, the associated relocation works have not been listed in the price schedule. Please clarify whether the relocation of this 11kV line falls within the Contractor's scope of work.	Yes, under this scope.	N
69	Volume 2 of 3	Chatkhil 132/33kV AIS Substation	Per the layout drawing, the substation measures approximately 123.8 m × 100.8 m. In contrast, the topographic survey drawing indicates the substation dimension is merely 110 m × 110 m. Please clarify this discrepancy.	The dimension may change according to the decision of the DC office. For tender purpose, please consider the provided layout drawing.	N
70	Price Schedule	132 kV BAY Extension At Kachua Substation 5K.3* _Slope (1V:2H) protection with CC block	Please clarify the specific area corresponding to the 850 m ² slope protection (gradient 1V:2H) constructed with concrete interlocking blocks.	Please refer to addendum-1	Y
71	Price Schedule	132 kV BAY Extension At Kachua Substation 5K.3*	During the site visit, five oil tanks were found within the extension area. Please clarify whether the removal of these oil tanks falls within our scope of work.	Yes, under this scope.	N
72	Volume 2 of 3	11.1.6.1 Engineer's and Employer's Accommodation	Per the technical specification, the Contractor is required to supply a 5 m × 8 m site office for each major site. However, this item is not listed in the price schedule; please clarify.	Cost of site office deemed to be included in the contract.	N
73	Volume 3 of 3 page SA-12	The existing Comilla-Kachua 132kV TL shall be terminated at new gantry from new Terminal Tower. Shifting of the Comilla-Kachua TL, necessary bypass, new tower installation and existing tower dismantling etc. shall be in the scope of this contract.	The scope of work herein describes the installation of a new tower. However, we cannot find the corresponding quantity item for the new tower in the price schedule. Please confirm whether the materials of the new tower will be provided by the contractor or if the dismantled old tower will be reused. In addition, please advise the type of the new tower.	The materials of the new tower will be provided by Power Grid. The type of the new tower is 1DT6 Narrow base.	N
74	Volume 3 of 3 page SA-13	7. Factory acceptance tests	Please clarify the number of Employer personnel who will attend the FAT witnessing, and who shall bear the resulting travel expenses.	Number of engineers and number of days for FAT shall be finalized during execution. As per GCC Clause 23.2, the Employer shall bear all costs and expenses incurred in connection with such attendance during the Factory Acceptance Test (FAT), including but not limited to travel, board, and lodging expenses, as well as daily allowance for the Employer's representative.	N
75	Volume 3 of 3	Contents of the Tender documents Schedule F: Proposed Subcontractors	The bidding documents do not include the format for Schedule F: Proposed Subcontractors. Please clarify.	Please refer to Volume 1 Section 4: Bidding forms (Page 4-126).	N

Samir

Sub

Sub

Sub

76	Volume 3 of 3_P4_PTSIREP	Schedule A (DESCRIPTION OF WORKS PART)	The bidding documents describe the 33kV construction scope for the four new 33kV Air Insulated Switches and Connection New 33kV AIS switchyard and switches for 132/33kV LV side / incomer connection and station power service facilities. Incomer side connection between 33kV terminal to 33kV Bus including switches, necessary fittings, structures, conductors for 132/33 transformers, 33kV Bus skeleton shall be built for SA-3 Design, Supply, Installation, Testing & Commissioning of 132/33 kV AIS Substation at Durgam Cheruvu, Hyderabad, Andhra Pradesh and District including associated 132/33 kV LV side of 33kV busbar and 33kV bus (Structure). eight (08) nos of 33kV bays including incomer bays. The auxiliary transformer shall be connected to the LV side of two new 132/33kV three phase transformers. Please confirm whether the scope of work for the 33kV line bay section at the four new 132/33kV substations is constructing the bus skeleton, and electrical equipment, support structures, and civil foundations of the 33kV line bay section are excluded from this contract.	Your question is not clear. 33kV bus skeleton at the four new substations shall be constructed for 8 (eight) new 33kV line / transformer incomer bays. Electrical equipment, support structures, and civil foundations of the 33kV line bay section are excluded from this contract. Electrical equipment, support structures, and civil foundations of the 33kV bays for transformer incomer and auxiliary transformer are included.	N
77	Volume 3 of 3_P4_PTSIREP Volume 2 of 3_P4_PTSIREP	Section 18 Schedule A (DESCRIPTION OF WORKS PART)	There is a discrepancy between two descriptions regarding the installation location of the 33kV auxiliary transformer in the bidding documents, as detailed below: eight (08) nos of 33kV bays including incomer bays. The auxiliary transformer shall be connected to the LV side of two new 132/33kV three phase transformers.  Please clarify whether the auxiliary transformer should be connected directly to the 33kV main busbars or to the main transformer's low-voltage side.	The Auxiliary transformer is connected directly to the 33kV main busbar according to the drawing. Please refer to Addendum-1.	Y

Seetha Sijana

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

78	Volume 3 of 3_P4_PTSIREP	SCHEDULE E 2.5 ITEM	Currently, the 33/0.415kV transformer is specified as a Grounding Transformer in the technical parameter schedule of the bidding documents. However, both the drawings and the descriptive text indicate it is an Auxiliary Transformer, as detailed below: 2.5 33/0.415 kV EARTHING/AUXILIARY TRANSFORMERS <table border="1"> <thead> <tr> <th>No.</th> <th>Description</th> <th>Material Parameters</th> <th>Unit</th> <th>Qty</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>General</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Test</td> <td>1. Load impedance: 100Ω 2. Short-circuit impedance: 0.05Ω 3. No-load loss: 100W 4. No-load current: 0.5A</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Load impedance</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Short-circuit impedance</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>No-load loss</td> <td></td> <td>W</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>No-load current</td> <td></td> <td>A</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>Range and properties</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>11</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>13</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>15</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>16</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>17</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>18</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>19</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>20</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>21</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>22</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>23</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>24</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>25</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>26</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>27</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>28</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>29</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>30</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>31</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>32</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>33</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>34</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>35</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>36</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>37</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>38</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>39</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>40</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>41</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>42</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>43</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>44</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>45</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>46</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>47</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>48</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>49</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>50</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>51</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>52</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>53</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>54</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>55</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>56</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>57</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>58</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>59</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>60</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>61</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>62</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>63</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>64</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>65</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>66</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>67</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>68</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>69</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>70</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>71</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>72</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>73</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>74</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>75</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>76</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>77</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>78</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>79</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>80</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>81</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>82</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>83</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>84</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>85</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>86</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>87</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>88</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>89</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>90</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>91</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>92</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>93</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>94</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>95</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>96</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>97</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>98</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>99</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> <tr> <td>100</td> <td>Test of being shorted</td> <td></td> <td>Ω</td> <td></td> <td></td> </tr> </tbody> </table> eight (08) nos of 33kV buses including incoming buses. The auxiliary transformer shall be connected to the LV side of two new 132/33kV three phase transformers.	No.	Description	Material Parameters	Unit	Qty	Comments	1	General					2	Test	1. Load impedance: 100Ω 2. Short-circuit impedance: 0.05Ω 3. No-load loss: 100W 4. No-load current: 0.5A				3	Load impedance		Ω			4	Short-circuit impedance		Ω			5	No-load loss		W			6	No-load current		A			7	Range and properties					8	Test of being shorted		Ω			9	Test of being shorted		Ω			10	Test of being shorted		Ω			11	Test of being shorted		Ω			12	Test of being shorted		Ω			13	Test of being shorted		Ω			14	Test of being shorted		Ω			15	Test of being shorted		Ω			16	Test of being shorted		Ω			17	Test of being shorted		Ω			18	Test of being shorted		Ω			19	Test of being shorted		Ω			20	Test of being shorted		Ω			21	Test of being shorted		Ω			22	Test of being shorted		Ω			23	Test of being shorted		Ω			24	Test of being shorted		Ω			25	Test of being shorted		Ω			26	Test of being shorted		Ω			27	Test of being shorted		Ω			28	Test of being shorted		Ω			29	Test of being shorted		Ω			30	Test of being shorted		Ω			31	Test of being shorted		Ω			32	Test of being shorted		Ω			33	Test of being shorted		Ω			34	Test of being shorted		Ω			35	Test of being shorted		Ω			36	Test of being shorted		Ω			37	Test of being shorted		Ω			38	Test of being shorted		Ω			39	Test of being shorted		Ω			40	Test of being shorted		Ω			41	Test of being shorted		Ω			42	Test of being shorted		Ω			43	Test of being shorted		Ω			44	Test of being shorted		Ω			45	Test of being shorted		Ω			46	Test of being shorted		Ω			47	Test of being shorted		Ω			48	Test of being shorted		Ω			49	Test of being shorted		Ω			50	Test of being shorted		Ω			51	Test of being shorted		Ω			52	Test of being shorted		Ω			53	Test of being shorted		Ω			54	Test of being shorted		Ω			55	Test of being shorted		Ω			56	Test of being shorted		Ω			57	Test of being shorted		Ω			58	Test of being shorted		Ω			59	Test of being shorted		Ω			60	Test of being shorted		Ω			61	Test of being shorted		Ω			62	Test of being shorted		Ω			63	Test of being shorted		Ω			64	Test of being shorted		Ω			65	Test of being shorted		Ω			66	Test of being shorted		Ω			67	Test of being shorted		Ω			68	Test of being shorted		Ω			69	Test of being shorted		Ω			70	Test of being shorted		Ω			71	Test of being shorted		Ω			72	Test of being shorted		Ω			73	Test of being shorted		Ω			74	Test of being shorted		Ω			75	Test of being shorted		Ω			76	Test of being shorted		Ω			77	Test of being shorted		Ω			78	Test of being shorted		Ω			79	Test of being shorted		Ω			80	Test of being shorted		Ω			81	Test of being shorted		Ω			82	Test of being shorted		Ω			83	Test of being shorted		Ω			84	Test of being shorted		Ω			85	Test of being shorted		Ω			86	Test of being shorted		Ω			87	Test of being shorted		Ω			88	Test of being shorted		Ω			89	Test of being shorted		Ω			90	Test of being shorted		Ω			91	Test of being shorted		Ω			92	Test of being shorted		Ω			93	Test of being shorted		Ω			94	Test of being shorted		Ω			95	Test of being shorted		Ω			96	Test of being shorted		Ω			97	Test of being shorted		Ω			98	Test of being shorted		Ω			99	Test of being shorted		Ω			100	Test of being shorted		Ω			The 33/0.415kV transformer is an Auxiliary transformer. Please refer to Addendum-1.	Y
No.	Description	Material Parameters	Unit	Qty	Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1	General																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
2	Test	1. Load impedance: 100Ω 2. Short-circuit impedance: 0.05Ω 3. No-load loss: 100W 4. No-load current: 0.5A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
3	Load impedance		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
4	Short-circuit impedance		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
5	No-load loss		W																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
6	No-load current		A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
7	Range and properties																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
8	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
9	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
10	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
11	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
12	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
13	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
14	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
15	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
16	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
17	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
18	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
19	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
20	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
21	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
22	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
23	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
24	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
25	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
26	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
27	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
28	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
29	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
30	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
31	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
32	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
33	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
34	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
35	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
36	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
37	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
38	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
39	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
40	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
41	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
42	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
43	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
44	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
45	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
46	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
47	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
48	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
49	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
50	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
51	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
52	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
53	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
54	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
55	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
56	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
57	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
58	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
59	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
60	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
61	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
62	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
63	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
64	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
65	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
66	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
67	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
68	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
69	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
70	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
71	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
72	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
73	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
74	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
75	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
76	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
77	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
78	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
79	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
80	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
81	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
82	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
83	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
84	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
85	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
86	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
87	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
88	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
89	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
90	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
91	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
92	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
93	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
94	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
95	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
96	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
97	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
98	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
99	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
100	Test of being shorted		Ω																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
79	Volume 3 of 3_P4_PTSIREP	SCHEDULE E 2.5 ITEM	Please provide the short-circuit impedance of the 33/0.415kV transformer.	Please refer to Addendum-1.	Y																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

Sanku Sujan

Q. M. M. M.

S. S.

S. S.

S. S.

80	Volume 3 of 3_P4_PTSIREP	Schedule A (DESCRIPTION OF WORKS PART)	In the bidding documents, in addition to the description of constructing two new outgoing line bays for the expansion works of Kachua Substation, there are the In addition, the scope of work of this contract includes: Redesign, relocation, modification and reconnection and testing of the two (2) existing 132 kV overhead line bay (Comilla South & Comilla North) for connection of the new 132kV Matlab (N)-1 & Matlab (N)-2 double circuit line. The existing 132KV Comilla South & Comilla North circuit shall be connected with two (2) new 132 kV bays. The existing Comilla-Kachua 132KV TL shall be terminated at new gantry from new Terminal Tower. Shifting of the Comilla-Kachua TL, necessary bypass, new tower installation and existing tower dismantling etc. shall be in the scope of this contract. Dismantling of existing structure and road in the area of scope is also included. After reviewing and understanding the above contents, several points still need to be clarified by the Employer. 1) Please clarify whether the electrical equipment and foundations of the existing two outgoing line bays intended to connect the new 132kV Matlab (N)-1 & Matlab (N)-2 double-circuit line need to be dismantled and replaced. 2) Please clarify the maximum transmission capacity in amperes for the existing 132kV Comilla South & Comilla North circuit line and the new 132kV Matlab (N)-1 & Matlab (N)-2 double-circuit line. 3) Please clarify whether the off-station overhead line part (with the outgoing line gantry as the boundary) of the new 132kV Matlab (N)-1 & Matlab (N)-2 double-circuit line is covered in this tender scope. 4) Please clarify the conductor type of the outgoing line bays and main busbar part.	1) No. 2) The existing 132kV Comilla South & Comilla North circuit line are of ACCC Linnet conductor and the new 132kV Matlab (N)-1 & Matlab (N)-2 double-circuit line are of ACSR Grossbeak conductor. 3) Yes. 4) Line bay-SINGLE ACSR GROSBEAK, Busbar-Twin ACSR FINCH	N
81			1) Please specify the beam bottom elevation, lightning conductor pole height of main bus gantry within the 132kV switchgear area of the newly-built substation. 2) Please specify the beam bottom elevation, lightning conductor pole height of outgoing line gantry within the 132kV switchgear area of the newly-built substation. 3) Please specify the beam bottom elevation, lightning conductor pole height of main transformer gantry within the 132kV switchgear area of the newly-built substation.	During execution stage height of 132KV Line Gantry shall be finalized based on the (slack span distance) distance between dead end tower and Gantry and other gantry height shall be finalized as per site requirement.	N
82	Volume 3 of 3 layout drawing		The 36 kV disconnector is specified as a vertical break type per the GTP requirements, while the layout drawing indicates it is Double side break type. Please clarify the actual type of the disconnector.	Please follow the Price Schedule and the GTP requirements. Layout drawings are indicative only.	N
83	Volume 3 of 3	GEP-1.3.5 36kV Current Transformer (For Earthing Transformer)	This current transformer is not shown in either the BOQ or drawings. Please confirm if it is required.	Not required.	N
84	Volume 3 of 3	Part 7 – GTP of Control, Protection, Substation Automation & Metering	Description: Part 7 – GTP of Control, Protection, Substation Automation & Metering Bidder's Queries: Common GTP of each protection relays are provided while there are two voltage levels in the project (132KV & 33KV). Our solution contains relays of different CT input, VT input, binary inputs & outputs based on different voltage levels. Hence, individual GTP for each voltage level is required. Please clarify.	The EPC contractor shall submit it during execution stage according to the provided common GTP.	N

Said Siyan

[Signature]

[Signature]

[Signature]

[Signature]

85	Volume 3 of 3	Clause: 111 & 211	Description: Clause: 111 & 211 Bidder's Query: As per the tender document, the scope of supply of 300AH Battery and >100A Charger for complete 132kV Substation. But as per our understanding, considering future feeders the capacity of battery & charger is less, it should be at least 400AH and charger rating at least 150A. Please clarify our understandings, and if rating need to be changed, please revise accordingly or if rating vary during execution time any variation will be provided or not.	No sizing calculation attached herewith for the battery and charger in this bid document. However it is the responsibility of bidder to assess the size and quote accordingly.	N
86	Kachua 132/33kV KV SUBSTATIONS		This is an extension substation. Please provide the general layout, section drawings, earthing, lightning protection and cable trench drawings of the existing substation, together with the specifications and models of materials used therein.	Layout has been provided in Volume 2 Section 18. Bidders shall visit the site for further information.	N
87	Kachua 132/33kV KV SUBSTATIONS		Please provide following document, existing AC&DC system diagram, existing DFDR diagram, existing busbar protection panel diagram,	AC&DC system : Bidders are requested to visit site for information, Busbar protection panel: Central Unit- REB500 7.5, Bay Unit- REB500 BU03. Make- ABB/HITACHI, Double Busbar Scheme. DFDR: Model-7KE85, Make-SIEMENS	N
88			Please clarify whether the Employer has a preliminary geological survey report for the four proposed substation sites.	Bidders may collect topographic survey report from the corresponding project office.	N
89			Please provide the Google Maps version of property boundary plans for the four new substation sites.	Please refer to addendum-1 for the boundary co-ordinates of the four new substations	Y
90		Geological Survey Report	The bidding documents do not provide any geological survey report for the substation. Please provide this report or document.	Bidders may collect topographic survey report from the corresponding project office.	N
91	General Query		General Query on Dhupchanchia 132/33kV AIS Substation Description of question: Kindly provide the length details of the four 132kV line bays to connect Line in-out of existing 132kV Bogra (S)-Naogaon double circuit overhead line (Bogra (S) 1 & 2, Naogaon 1 & 2) up to Dhupchanchia double circuit overhead transmission lines. This information is required to assess whether the implementation of a line differential protection scheme is necessary	1. Bogura to Dupchanchia= 21.346 km (approximate), 2. Naogan to Dupchanchia= 26.932 km (approximate)	N
92	General Query		General Query on Kumarkhali 132/33kV AIS Substation Description of question: Kindly provide the length details of the four 132kV line bays to connect Line in-out of existing 132kV Bheramara-Rajbari double circuit overhead line (Bheramara 1 & 2, Rajbari 1 & 2) up to Kumarkhali double circuit overhead transmission lines. This information is required to assess whether the implementation of a line differential protection scheme is necessary	1. Bheramara to Kumarkhali=30.06 km (approximate), 2. Rajbari to Kumarkhali= 44.949 km (approximate)	N

Saikat Sijana

[Signature]

[Signature]

[Signature]

[Signature]

93	General Query	General Query on Matlab North 132/33kV AIS Substation Description of question: Kindly provide the length details of the two 132kV line bays to connect Kachua 132/33kV Sub-station (Kachua 1 & 2); up to Matlab North double circuit overhead transmission lines. This information is required to assess whether the implementation of a line differential protection scheme is necessary	Approximately 33 km.	N
94	General Query	General Query on Chatkhil 132/33kV AIS Substation Description of question: Kindly provide the length details of the four 132kV line bays to connect Line in-out of existing 132kV Choumuhani-Ramganj double circuit overhead line (Choumuhani 1 & 2, Ramganj 1 & 2) up to Chatkhil double circuit overhead transmission lines. This information is required to assess whether the implementation of a line differential protection scheme is necessary.	1. Chowmuhuni to Chatkhil= 13.953 km (approximate), 2. Ramganj to Chatkhil= 26.948 km (approximate)	N
95	General/Location	Description: Location of the site. Bidder's Query: The exact location of the proposed site is not indicated in the submitted documents. Please provide the site coordinates (latitude and longitude) to facilitate the site visit and verification process.	Please refer to addendum-1 for the boundary co-ordinates of the new substations.	Y
96	General Query	Bidder's Query: Please provide the circuit length information of Matlab (N)-1 & Matlab (N)-2 double circuit line to Kachua Substation to understand whether Line Differential Relay is required or not.	Approximately 33 km.	N
97	General Query	Bidder's Query: As per the Tender Document, Bay Extension of Kachua Substation is required. Kindly provide the existing RTU, DFDR, SAS manufacturer & Model Information. Also, clarify the scope that if any modifications or extension is required or not.	DFDR: Model-7KE85, Make-SIEMENS, SAS: Manufacturer of SAS is Hitachi Switzerland (Former ABB). Existing SAS architecture is RSTP in Station level and Star/line mode in Bay level. Additional switches and extension of necessary license for servers with reconfiguration shall also be in scope.	N

Saikat

Sujan

[Handwritten signature]

[Handwritten signature]

GA

[Handwritten signature]