Power Grid Company of Bangladesh Limited (PGCB)

IFB No. 27.21.0000.101.07.123.19.5084 dated 17 September, 2019

Design, Supply, Erection, Testing & Commissioning of Upgradation of the Existing 132kV Madunaghat Substation to 230kV GIS substation on Turnkey Basis

Bid Identification No.: PGCB/DCMPGSP/BD-P81/SS/03

Pre-Bid meeting was held on 10th October 2019 at 11:00 o'clock at the PGCB Headquarter
All comments, queries and requests for clarification, regarding the Tender documents, received from prospective Bidders, and relevant replies and clarifications prepared by PGCB, and associated addendums (if any), are part of Tender documents

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
1	Volume-I, Section 3. Evaluation and Qualification Criteria Page 3-8 Participation as Contractor (single entity or JV member) in at least 3 (three) similar contracts with an aggregate value of USD 37 (thirty-seven) million or equivalent that have been successfully completed between 1st January 2007 and the Bid submission deadline. The scope of each contract must include design, supply, delivery, installation, testing & commissioning and civil work of extension/new 220kV or higher voltage level AIS and/or GIS substations with minimum four (4) bays having one transformer bay including 220kV or higher rating transformer on turnkey basis. Volume-I, Section IV: Bidding Forms	We understand the bidder need to fill the form "Form EXP-2(a): Specific Experience" for bidder qualification. While filling the form, if contract value is in other currency then it should be converted to USD and the exchange rates will be as on date of award of that particular contract. Kindly confirm. If our above understanding is not correct, kindly provide the methodology for considering exchange rates. And also we request to provide the methodology for considering exchange rates for converting annual turnover and current contract commitments to USD.	Your understanding is correct.

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	Page IV-28 Form EXP-2(a): Specific Experience Contract value		
2	Volume-I: Section 7 - General Conditions of Contract clause: 9.3, Page 7 - 10 The Contractor 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 such authorities or undertakings require the Contractor to obtain in its name and which are necessary for the performance of the Contract, including, without limitation, visas for the Contractor's and Subcontractor's personnel and entry permits for all imported Contractor's Equipment. The Contractor shall acquire all other permits, approvals and/or licenses that are not the responsibility of the Employer under GCC Sub-Clause 10.3 hereof and that are necessary for the performance of the Contract.	In the said clause it is mentioned that 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. Since bidder during tendering stage is not aware of concerned authorities from which administrative support may be required, we request PGCB to kindly provide us the list of concerned authorities to get the approval regarding construction of works.	At this stage of tendering it is not possible to provide a such lists as it varies from one project to another.
3	Volume 1, Section 9: contract forms: Appendix 1- Terms and Procedures of Payment, Page 9-7	We understand the advance paid to the Contractor shall be interest free. Kindly Confirm.	You understanding is correct

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4	General	We understand the land for construction is already acquired by PGCB and PGCB will provide contractor encumbrance free land during award of contract. Any disputes arising against land acquisition of land provided by PGCB during construction of works will be taken care by PGCB. Kindly confirm.	Proposed substation will be constructed by dismantling of an existing 132kv AIS substation which is already under PGCB. Bidders are requested to visit the site and to read the detail scope carefully.
5	General	We understand that PGCB shall provide water and electricity for construction works for free of cost at each sub-station location to Bidder. Kindly confirm whether our understanding is correct.	It is the responsibility of Contractor to arrange construction purpose water and power source from nearest respective department if available. The Employer may give administrative support for acquiring such kind of facilities to the contractor. Otherwise the contractor may use underground water by constructing necessary installation near switchyard prior to the consent of employer.
6	Volume 2, Clause 5.21	Clause 5.21 : Make of DFDR shall be Qualitrol (UK) / SEL (USA)/ Siemens (Germany) for standardization of operation performance, facilities and spare requirements. we presume that Manufacturer Authorization Letter only is required for approved manufacturers. Kindly confirm	You are required to submit Manufacturer's Authorization, guaranteed technical particulars and valid ISO.
7	Volume 1, Section 9: contract forms: Appendix 1- Terms and Procedures of Payment, Page IX-7	Clause: • Five percent (5%) of the total or pro rata CIP or amount upon issue of the Completion Certificate, within forty-five (45) days after receipt of invoice. • Five percent (5%) of the total or pro rata CIP or amount upon issue of the Operational Acceptance Certificate, within forty-five (45) days after receipt of invoice. We understand that completion certificate and operational certificate can be obtained location wise and payment of final 10% will be released location wise. Kindly confirm.	Your question is not clear. Bidders are are requested to read the bid document carefully and also requested to visit the site for clear understanding of the scope. Proposed substation will be constructed in one location only.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
8	Volume 1, Section 8: Special conditions of contract: Clause 27, Defect Liability: Page 8 - 11	Sub-Clause 27.2 is replaced by the following: The Defect Liability Period shall be twelve (12) months from the date of Operational Acceptance of facilities for all equipment/materials. We understand that Defect liability period will be applicable location wise. i.e., Defect liability period will start for a particular location on operational acceptance of that particular location. Kindly confirm.	Please refer to the reply against query no 7. Nothing related with location.
9	Volume 3 Schedule I: Drawings and Documents Clause 2.5 Page SI-5 & SI-6 "Type test certificates of Power Transformer, GIS and Lightning Arrester shall be issued by any one of the independent testing laboratories listed below 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 the below listed independent testing laboratories. Short listed independent testing laboratories: - 1. KEMA Laboratories - DNV GL – Netherlands/USA 2. CESI – Italy 3. PEHLA Laboratory– Germany 4. CERDA– France 5. Powertech Laboratories Inc. – USA 6. Hitachi Ltd., High Voltage & High Power Testing Laboratory – Japan 7. Toshiba Corp. Hamakawasaki High	However, there are many other laboratories which are under STL that are not included in the Tender list, thus limiting the competition and participation of the vendors in for the subject tender. To be specific non-mention of CPRI-India denies many Indian Manufacturers from participating in this bid. Hence we request you to amend the clause of Type test Requirement suitably accepting the Type test certificates of Power Transformer, GIS, Circuit breaker and Lightning Arrester from other STL laboratories that are not mentioned in the Tender Documents and thereby making a fair and healthy competition and also to bring in a competitive bid. And we would like to bring to your kind attention that the Type test certificates from any of the STL laboratories were accepted in all the earlier PGCB tenders. Kindly Confirm.	Please refer to the Addendum No.1

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	Voltage and High Power Testing Laboratory – Japan 8. KERI – Korea "		
10	Volume 3 Schedule I: Drawings and Documents Clause 2.5 Page SI-5 & SI-6 "* short circuit test certificates/reports for 230kV transformer shall be of minimum 220kV, 225MVA three phase inter bus Power Transformer."	As per the above Tender clause pertaining to Power Transformer (230kV), regarding Short circuit withstand test (special test) certificates/reports requirements mentioned in Clause no. 2.5 of Schedule I: Drawings and Documents in Volume 3 of 3, Three phase SC reports were asked whereas single phase SC reports also are accepted in various tenders under different utilities globally. So we request you to amend the below clause from: "*short circuit test certificates/reports for 230kV transformer shall be of minimum 220kV, 225MVA three phase inter bus Power Transformer" to "*short circuit test certificates/reports for 230kV transformer shall be of minimum 220kV, 100MVA three phase/Single Phase inter bus Power Transformer" Kindly Confirm.	Your proposed modification is not acceptable. It shall be as per bidding document.
11	Vol-2, Section 1 - Scope of work, Page 1-3 - Clause No. : 1.2	Please provide the following details for the Existing 132kV Madhunaghat SS : 1. Soil Investigation report 2. Contour layout 3. High Flood Level 4. Finished Ground level in order to estimate the quantum of foundation work.	The contractor is responsible for site survey, subsoil investigation and any other things which are required to complete this turnkey contract if awarded and the cost of which are deemed to be included in the overall contract price. Bidders are requested to visit the site for clear understanding of the scope and they are responsible for assessment of the estimated amount by themselves.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
12	Vol-2, Section 1 - Scope of work, Page 1-3 - Clause No. : 1.2	We understand that, the following works are not in bidder's scope as per scope of work. 1. Land development (Cutting and filling) 2. Soil investigation report for proposed bay works 3. Boundary wall 4. Retaining wall. 5. Chain link fencing 6. Main gate along with security hut please confirm.	As per the bid requirement.
13	Vol-2, Section 1 - Scope of work, Page 1-3 - Clause No. : 1.2 (1)	As per referred clause, the Dismantling and removal of the existing 132kV substation equipment and concrete structures is in bidder's scope. Please provide and the following details for the existing structure : 1. Numbers of structure 2. Type of structure (lattice/pipe/concrete) 3. Height of structure 4. GA drawings (if available) 5. Foundation drawings	Bidder are encouraged to visit the site and investigate by themselves.
14	Vol-2, Section 11 - SUPPORTING STRUCTURES FOR OUTDOOR EQUIPMENT - Clause No.: 11.2	We trust that, all girders, towers and equipment structure shall be of steel lattice type & connected with their foundation by foundation bolts with base plate. Please confirm.	Your understanding is correct. However, GIS and other equipment structure shall comply with the guidelines of manufacturers also.
15	Vol-2, Section 11 - SUPPORTING STRUCTURES FOR OUTDOOR EQUIPMENT - Clause No.: 11.7.4	We presume that, the galvanisation thickness for structures is 610g/sq.m for the proposed substations.Please confirm.	Minimum average galvanization thickness for structure is 85micro-meter and shall be complied BS 729.
16	Vol-2, Section 12 - BUILDINGS AND CIVIL ENGINEERING & WORKS - Clause No.: 10.2.3.3 (Drainage)	We wish to inform that, the type of drain & provision of drain is not specified in the tender document. We presume that, the drain shall be open rectangular brick masonry type and the same shall be provide on one side of the road. Please confirm.	The Contractor is responsible for designing water supply and sewage drainage grid surround the station at the time of detail engineering as required. However, we have also revised Section 12 of Volume 2. Please refer t.

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17	Vol-2, Section 12 - BUILDINGS AND CIVIL ENGINEERING & WORKS	We wish to inform that, the detailed pile foundation specification is not attached with tender document. please provide the same, in order to ascertain the quantum of work.	This is a turnkey contract. The detail design is also responsibility of the Contractor. All required foundation design including pile subject to sub-soil investigation will be submitted by the contractor and finalized by employer during detail engineering after award of contract.
18	Vol-2, Section 12 - BUILDINGS AND CIVIL ENGINEERING & WORKS - Clause No. : 12.2.3.27	We propose to use grade of Fe500 in design and supply instead of Fe 415, as it is not readily available in market. Please confirm.	As per Bid Documents, inferior quality will not be approved. However, we have also revised Section 12 of Volume 2. Please refer to **Addendum-1**.
19	Vol-2, Section 12 - BUILDINGS AND CIVIL ENGINEERING & WORKS - --	We wish to inform that, the detailed specification for "SPR building" is not attached with tender document. please provide the same, in order to ascertain the quantum of work.	This is a turnkey contract. Switchyard Panel Room (SPR) shall be one storied building and shall be designed by the contractor during detail engineering stage after award.However, All kinds of control & protection panel, AC/DC DB, battery, charger etc shall be incorporated inside the SPR considering space provision (7 additional bays) for panels of future bays also.
20	Vol-2, Section 1 - Scope of work, Page 1-3 - Clause No. : 1.2.2	As per referred clause, the outdoor GIS equipment foundation is in bidders scope. However in price schedule, there is no separate item for the same. Kindly include the same.	It is in price schedule item 1K3 ii in Volume 3
21	Vol-2, Section 1 - Scope of work, Page 1-3 - Clause No. : 1.2.2	We trust that, no building extension work and no modification work involved in the existing buildings. Please confirm.	Please read carefully the detailed Scope of work is in Volume 3 of the bidding document.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
22	Volume 2 of 3 (Part 1) Page No. 1-3. Clause no. 1.2	As per referred clause, "Dismantling and removal of the existing 132kV substation equipment and concrete structures in order to free space for construction of 230kV substation" In this regard, please furnish the following details; a) Whether existing 132kV AIS station is in charged condition b) If yes, whether relocation of existing 132kV feeders shall be in the scope of PGCB. c) Existing 132kV AIS station overall layout - Plan & Section to assess the dismantling work d) We understand that dismantled Equipment along with structures, and other items like cables, terminations, Clamps & Connectors, Hardware, Conductor, Bus-bars, Light fixtures & other reltaed accessories removed from 132kV AIS Switchyard are to be handed over to PGCB's designated store in Chattogram area as mentioned in Vol.3, schedule-A, Item no. 1K2. In this regard, please furnish the distance between Madunaghat station to PGCB store.	a) Existing 132kV AIS station will be in discharged condition during hand over of site. b) Relocation of existing 132kV feeders is not in the scope. However, identification and relocation control and protection cables for existing 33kV feeders are scope of this contract if found in the area of proposed 230kV switchyard. c) Bidders are encouraged to visit sites and extract the information by themselves. d) The location of the store will be finalised during contract execution.
23	Volume 2 of 3 (Part 1) Page No. 1-3. Clause no. 1.2	We presume that, dismantling of 132kV switchyard is limited only to those in the outdoor area and there is no dismantling requirement inside Control building.	Your understanding is correct. However, all kinds of control protection and power cables removal from switchyard to inside control building are scope of this contract for safe work place.
24	Volume 2 of 3 (Part 1) Page No. 1-3. Clause no. 1.2	a) Whether main earth mat of existing 132kV AIS switchyard need to be dismantled or to be used for 230kV system? b) If the main mat should not be disturbed/dismantled, please furnish the existing switchyard main earth mat layout and spacing between main earth mat conductor and conductor material and size to assess the suitability for 230kV GIS substation.	a) Existing earth mat of 132kV AIS substation needs to be dismantled. b) New earth mat shall be installed for 230kV GIS system and shall be connected to 132kV GIS system.
25	Volume 2 of 3 (Part 2) Page No. Drawing - DCMPGSP/PKSS-3/MAD/002 - GENERAL LAYOUT (PLAN) OF 230/132 kV MADUNAGHAT GIS SUBSTATION	In the referred drawing, existing 132kV GIS building is shown. In this regard, please confirm whether 132kV GIS substation is under construction or in operation.	132kV GIS substation is under construction right now. 132kV GIS substation will be commissioned before handover of said AIS substation to the Contractor of this contract.

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26	Volume 2 of 3 (Part 2) Page No. Drawing - DCMPGSP/PKSS-3/MAD/002 - GENERAL LAYOUT (PLAN) OF 230/132 kV MADUNAGHAT GIS SUBSTATION	a) Please demarcate between existing facilities and new facilities in the layout for better understanding. b) In this referred layout, cable trenches are shown in different colors. Please provide the demarcation between existing trench & new trench. c) Please mark the existing roads and the new roads which need to be constructed under present contract. d) Alternatively, request you to share the Existing substation layout that covers all the above requirements.	The existing layout is sufficient enough to understand the scope of work. For better understanding bidders are encouraged to visit the site. However, 132kV GIS substation layout and cable trench layout is attached herewith as **ATTACHMENT 13**.
27	Volume 2 of 3 (Part 2) Page No. Drawing - DCMPGSP/PKSS-3/MAD/002 - GENERAL LAYOUT (PLAN) OF 230/132 kV MADUNAGHAT GIS SUBSTATION	a) Please furnish the location of all existing 132kV GIS substation control & relay panel, SAS, FOTE, EPBAX, ACDB, DCDB. Whether these facilities are available above the 132kV GIS hall or in the control building as shown in the referred layout. b) Please furnish the overall layout of GIS building - Ground floor, first floor (If available) & that of Control building.	The 132kV GIS building is shown on the layout drawing. The Control room is located on the first floor of the 132kV GIS Building. This information is sufficient for estimation of bid price.
28	Volume 2 of 3 (Part 2) Page No. Drawing - DCMPGSP/PKSS-3/MAD/001 - SINGLE LINE DIAGRAM OF 230/132 kV MADUNAGHAT GIS SUBSTATION	As per referred SLD, Bus VT & line VT shall be provided for 245kV Outdoor GIS. However, there is no isolating link indicated in the SLD. In this regard, if any Manual or motorized isolating link is required for VT, please indicate the same in the line item description of price schedule.	This link is part of GIS VT assembly. It is not required to show the link in SLD or price schedule as separate item.
29	Volume 2 of 3 (Part 1) Page No. 1-6. Clause no. 1.4.3	As per the referred clause, the creepage distance shall be 25mm/kV. However, as per clause-1.5, atmoshperic pollution is mentioned as 'light' which corresponds to 16mm/kV creepage. As the requirements are contradicting, please confirm the creepage distance to be adopted.	The creepage distance shall be 25mm/kV.
30	Volume 2 of 3 (Part 1) Page No. 2-44. Clause no. 2.31	As per referred clause, "Insulating oil shall be provided by the Contractor for all oil filled apparatus and 10% excess shall be provided for topping up purposes in sealed drums" As per Mandatory spares under schedule-1, item no. 2.8.1.8, 10 nos. of transformer oil 200 litter barrel is specified. Hence, we are not envisaging supply of 10% spare oil with 300MVA transformers, as mentioned in Clause-2.31.	Topping up purpose 10% excess oil is not required. However, Spare oil as per Price schedule item no. 2.8.1.8 shall have to be provided.

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31	Volume 2 of 3 (Part 1) Page No. 3-18. Clause no. 3.4.6.2 (h)	As per referred clause, we understand that long rod composite polymer insulator is acceptable. Please confirm.	Your understanding is correct.
32	Volume 2 of 3 (Part 1) Page No. 3-18. Clause no. 3.4.6.2 - Parameter	As per referred clause, "The minimum parameters of insulator discs/complete insulator strings shall be as per the stipulation of Schedule A of Volume 3 of 3 (Schedule of Requirements)" However, there is no data sheet/GTP available in Vol 3 - Schedule -A. Please check and furnish the same.	Please refer to **Addendum-1**.
33	Volume 2 of 3 (Part 1) Page No. 3-18. Clause no. 3.5	Please furnish the degree of protection of Outdoor 245kV GIS and associated local control cubicle (LCC) enclosure.	Please refer to Clause 2.27.2 Electrical Equipment Enclosures, Volume 2 of 3
34	Volume 2 of 3 (Part 1) Page No. 3-31. Clause no. 3.5.7.1	Please furnish the mechanical endurance class of 245kV GIS circuit breaker.	The mechanical endurance class of GIS circuit breaker shall be M2.
35	Volume 2 of 3 (Part 1) Page No. 3-35. Clause no. 3.5.7.2	Please furnish the mechanical endurance of 245kV disconnector, earth switch & fast acting earth switch.	The mechanical endurance class of GIS disconnector, earth switch & fast acting earth switch shall be M2.
36	Volume 2 of 3 (Part 1) Page No. 3-28. Clause no. 3.5.6.10	As per referred clause, "The Contractor shall include in his supply power operated lifting appliances with all accessories as appropriate to the size and weight of component parts of the switchgear which require to be lifted in the course of maintenance or repair." In this regard, please furnish the specification of power operated lifting appliances and add a separate line item in the price schedule.	As per the bid requirement. Bidder shall know what is required by the GIS vendor. The price of this appliances shall be deemed to be included in overall contract price.
37	Volume 2 of 3 (Part 1) Page No. 3-28. Clause no. 3.5.6.10	We are not envisaging the following special tools for this contract, as the same is not mentioned in the specification as well as in the price schedule: a) SF6 gas filling & evacuation plant b) Partial discharge monitoring system c) SF6 gas leak detector d) Dew point meter e) Operation analyzer If required, please include separate line item in the price schedule & furnish specifications for the same.	Please refer to clause No. 3.5.6.16 Gas Handling Equipment.

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38	Volume 2 of 3 (Part 1) Page No. 3-29. Clause no. 3.5.6.14	As per referred clause, " The Manufacturer should be prepared to guarantee the equipment for a gas loss of not more than 0.5% per annum in any single gas compartment, and not more than 0.5% for the total installation. However, as per vol.3, Appendix-A1-1, Sl no.7, Max. gas losses per gas compartment and year shall be less than 0.1%. As both the above clauses are contradicting, please check and clarify the actual requirement.	Max. gas losses per gas compartment per year shall be less than 0.1%. Please refer to the **Addendum 1** .
39	Volume 2 of 3 (Part 1) Page No. 3-34. Clause no. 3.5.7.1 (7)	As per referred clause, Two operating duty sequence is mentioned for line CB as follow: O - 0.3sec. - CO - 3min. - CO (High speed case 1) or O - 0.3sec. - CO - 15sec. - CO (High speed case 2) For Other CB for No auto reclosing function applied CO - 15sec. - CO However, as per vol.-3, Appendix-A1-1, Sl no.9, Page no. SAA-4, rated duty cycle for all CB is mentioned as O-0.3sec-CO-3min-CO. As both the above clauses are contradicting, we shall follow the rated operating sequence as mentioned in Appendix-A1 for all circuit breakers. Please confirm.	Confirmed
40	Volume 3 of 3 Page No. SA-3 Schedule- A, Clause No. 3	As per the referred clause, "The Employer's Engineer's Office at site shall be in arranged by the contractor, either in a separate temporary building or in the existing old 132kV Control Room Building which will be out of service except some 33kV control facilities." In this regard, we request PGCB to indicate the location of old control building in the plot plan.	Bidders are requested to consider separate temporary arrangement for site. The place or position of site office shall be determined by the bidder after conducting the site visit.
41	Volume 3 of 3 Page No. SA-6 Schedule- A, Item No. 1B1	As per referred clause, "1 Lot 245kV Gas Insulated Line (GIL) with terminating bushings, complete with support" is mentioned. We interpret Gas insulated Line as Gas insulated Busduct (GIB). Please confirm.	Confirmed

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42	Volume 3 of 3 Page No. SA-6 Schedule- A, Item No. 1B2	As per referred clause, 245kV GIS autotransformer feeder bay shall be connected by single core power cable. However, as per layout & SLD, 245kV GIS autotransformer bay shall be connected by Gas insulated busduct with Sf6 to air bushing. If 245KV GIS autotransformer bay shall be connected by single core power cable. Please add the separate line item for 245KV power cable, GIS termination and outdoor termination in the price schedule. Further please furnish specification for 230kV XLPE Cable. If 245KV GIS autotransformer bay shall be connected by Gas insulated busduct with SF6 to air bushing, then please add a separate line item in price schedule.	245KV GIS autotransformer bay shall be connected with Autotransformer by insulated busduct with SF6 to air bushing through overhead conductor. **Addendum 1** includes revised Item No. 1B2 in Volume 3 of 3 Page No. SA-6.
43	Volume 3 of 3 Page No. SA-6 Schedule- A, Item No. 1B3	As per referred clause, 2 sets of 2 core current transformer shall be provided for Bus-coupler bay. However, as per drawing no. DCMPGSP/PKSS-3/MAD/004 - 230 kV BUS PROTECTION, 3 core current transformer is indicated. Please check and confirm the number of cores of current transformer required for bus-coupler bay.	Volume 3 of 3 Page No. SA-6 Schedule- A, Item No. 1B3 is correct and the drawing DCMPGSP/PKSS-3/MAD/004 is not correct because there is no protection 87B2.
44	Volume 3 of 3 Page No. SA-7 Schedule- A, Item No. 1C1	Please furnish the technical datasheet of 120kV Surge arrester as the same is not available in the Appendix - A1.	Technical data sheet for 120kV Surge Arrester has been provided. Please refer to **Addendum-1**.
45	Volume 3 of 3 Page No. SA-7 Schedule- A, Item No. 1C2	As per referred clause, " One spare cable shall be laid with coiled ends of sufficient length to enable connection to any of the 3 auto transformers" In this regard, we understand that this spare 132kV cable shall be paid under same unit rate item 1C2. Please confirm whether bidder understanding is in order.	Confirmed.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
46	Volume 3 of 3 Page No. SA-8 Schedule- A, Item No. 1F1	As per referred clause, Main line differential protection relay shall be of the same manufacturer type as those provided for 400/230kV Madunaghat substation. In this regard, please furnish the make and model no. of Main line differential protection relay of 400/230kV Madhunaghat substation.	RED670 and REL670 from ABB, Switzerland.
47	Volume 3 of 3 Page No. SA-8 Schedule- A, Item No. 1H1	Please furnish the earth resistivity test report (ERT) or at least Soil resistivity value of the existing AIS station to design the earthing for new station for tender purpose.	Bidders are requested to conduct site visit and measure the soil resistivity.
48	Volume 3 of 3 Page No. SA-10 Schedule- A, Item No. 1I1 (iii)	Please furnish the existing 110V DCDB SLD and busbar rating of existing DCDB to assess the DCDB extension work.	**Single Line diagram of existing DCDB SLD located at new 132kV Control building has been provided which is attached herewith as Attachment-11.**
49	Volume 3 of 3 Page No. SA-10 Schedule- A, Item No. 1I1 (iii)	Please confirm whether existing substation is 123kV or 132kV GIS.	The voltage level of existing voltage is 132kV
50	Volume 3 of 3 Page No. SA-10 Schedule- A, Item No. 1J1	Please furnish the existing LVAC switchboard SLD and busbar rating of existing LVAC switchboard to assess the ACDB extension work.	**Single Line diagram of existing ACDB SLD located at new 132kV Control building has been provided which is attached herewith as Attachment-11.**
51	Volume 3 of 3 Page No. SA-10 Schedule- A, Item No. 1J1	We understand that the number of outgoing feeders in new LV AC switchboard shall be provided for present scope only. Please confirm.	Bidders shall consider additional 25% spares for future provision.
52	Volume 3 of 3 Page No. SA-10 Schedule- A, Item No. 1K1	The per referred clause says "Identification and relocation of control and protection cables for existing 33kV feeders, if found in the area of proposed 230kV switchyard". Please clarify whether Re-location is re-routing of existing cables? In this regard, if cable length is increased during rerouting of the cable, the same shall not be in Bidder's scope. Please confirm.	Identification and relocation of those cable may need rerouting also. If rerouting is required then Contractor shall construct required trenches if not available. However, additional cable (if require) may supply/provided by the employer.
53	Volume 3 of 3 Page No. SA-12 Schedule- A, Item No. 1M2	Please furnish the make & model no. of existing PABX.	Extension of existing PABX is not required. Only two numbers of telephone set with necessary wiring & connection is required to be provided in the 230kV SPR for communication purpose. **Please refer to the the Addendum-1**

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54	Volume 3 of 3 Page No. SAA-2 Appendix -A1-1	245kV SF6 to air bushing GTP and specification is not available in the referred clause. Please check and furnish the same.	It shall be as per GIS manufacturer standard supply for 230 kV and with porcelain insulator.
55	Volume 3 of 3 Page No. SAA-7 Appendix -A2, Sl no. 11.1	Please specify the ambient temperature over which the temperature rise shall be guaranteed.	45 degree celcius
56	Volume 2 of 3 (Part 1) Page No. 4-33. Clause no. 4.13.3 & 4.13.4	We understand that oil storage tank mentioned in clause no. 4.13.3 is same as clause no. 4.13.4 - Collapsible Oil Containers. Please clarify.	Oil storage tank is required at the time of oil filling of Main transformer tank during installation specification of which is mentioned on the clause 4.13.3. Whereas collapsible oil container is different which use for oil storage purpose during maintenance though it is not in the scope of this contract.
57	Volume 2 of 3 (Part 2) Page No. Drawing - DCMPGSP/PKSS-3/MAD/010 - 230 kV SWITCHYARD PANEL ROOM	As per referred clause, 230kV SPR room is to be sized only for present bays under the scope of this package. Please confirm.	Please refer to the reply against query no. 19
58	Volume 2 of 3 (Part 1) Page No. 18-2. Clause no. 18.10.4	As per referred clause, " The specified and required manufacturing process is the vertical continuous vulcanization (VCV) line to ensure the highest standards of concentricity." In this regard, we request PGCB to accept cables manufactured through Continuous Centenary Vulcanizing (CCV) process also. Please confirm.	As per the bid requirement.
59	Volume 2 of 3 (Part 1) Page No. 18-7. Clause no. 18.10.4	As per referred clause, The thickness of insulation shall be 17mm minimum. However, as per vol-3, Appendix - A3, Sl no. 9, Page no. SAA-10, Insulation thickness shall be minimum 15mm. As both above clauses are contradicting, please check and furnish the actual requirement.	The thickness of the insulation shall be 17 mm minimum.
60	Volume 2 of 3 (Part 1) Page No. 18-7. Clause no. 18.13.4 - Bonding	We are proposing single point bonding for 132kV cable as the circuit length is very less. Please accept the same.	It shall be decided during execution of the contract.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
61	Volume 3 of 3 Page No. SAA-10 Appendix -A3, Sl no. 5	As per referred clause, 132kV cable cross section area shall be subject to Short circuit rating for 3 sec and current-carrying capacity of 300MVA. As the 132kV cable is a unit rate item, please furnish the cross section area of the conductor in order to have transparent & uniform bidding conditions.	Cross section of cable shall be 1600 sqmm (1 run per phase) However, the contractor shall be responsible for submitting necessary calculation regarding current carrying capacity and short time withstand capacity at the time of execution..
62	Volume 3 of 3 Page No. SAA-10 Appendix -A3, Sl no. 4	As per referred clause, 132kV cable shall be 1 run per phase. However, capacity of cable is very high i.e.300MVA. It will be very difficult to carry 300MVA capacity in single run. Hence, we request PGCB to accept multiple runs per phase. Please confirm acceptance. Please confirm the maximum number of runs per phase that can be terminated in the existing 132kV GIS.	Please refer to the reply against query no 61.
63	Volume 3 of 3 Page No. SAA-10 Appendix -A3, Sl no. 8	As per referred clause, Shape of 132kV cable conductor shall be compact round. As most manufacturers are following Milliken type conductors above 1000sq.mm., we request PGCB to amend this clause to round/Milliken.	This can be sorted out during project execution.
64	Volume 2 of 3 (Part 1) Page No. 18-8. Clause no. 18.10.6 & 18.10.7	As per referred clause, Metallic screen & metallic sheath shall be envisaged for the 132kV cable. In this regard, we understand that either metallic sheath or metallic screen or combination of both can be offered which shall withstand the short circuit earth fault current. Please confirm whether bidder understanding is in order.	Confirmed
65	Volume 2 of 3 (Part 1) Page No. 18-8. Clause no. 18.10.8	As per referred clause, " The nominal thickness of outer sheath shall be not less the specified value.". However, there is no value specified in the specification and datasheet. In this regard, please furnish the nominal or minimum thickness of outer sheath.	It shall be proposed by the manufacturer.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
66	Volume 2 of 3 (Part 1) Page No. 18-10. Clause no. 18.13.01	The scope demarcation between 132kV GIS manufacturer and 132kV GIS cable termination vendor shall be as per IEC-62271-209. Please confirm.	Your understanding is correct. However here both female part (Housing at GIS end) and male part (termination at cable end) are scope of this Contract.
67	Volume 2 of 3 (Part 1) Page No. 18-11. Clause no. 18.13.1	132kV cable laying between 230/132/33kV transformer to 132kV GIS shall be by means of directly buried trench or in RCC trench with cable supports.	It shall be 132kV cable laying in RCC trench with cable supports.
68	Volume 2 of 3 (Part 1) Page No. 5/8. Clause no. 5.8.1	As per referred clause, we understand that Main -1 & Main-2 Protection relays of 245kV line feeder shall be provided with following in-built protection: Main-1 - 87L, 21, 67/67N, 50/51, 50N/51N Main-2 - 21, 67/67N, 50/51, 50N/51N We presume that backup protection function can be inbuilt feature of main relays. Please confirm.	Main-1 and Main 2 relays shall be two separate relays as per bid requirement.
69	Volume 2 of 3 (Part 1) Page No. 5/17. Clause no. 5.9.1- Bus bar protection	We propose Centralized busbar protection, as the new substation is outdoor GIS and the associated control & relay panels are located in the same SPR. Please confirm acceptance.	Not acceptable. As per the bid requirement.
70	Volume 2 of 3 (Part 1) Page No. 5/18. Clause No. 5.10 & 5.11	Kindly confirm the following: a) Whether LBB can be a part of busbar protection or Main protection relay? b) Whether Auto reclose and synchro check feature can be inbuilt feature of BCU?	It shall be as per bid documents.
71	Volume 2 of 3 (Part 1) Page No. 5/22. Clause No. 5.13	As per drawing no. DCMPGSP/PKSS-3/MAD/005, 230 kV TRANSFORMER PROTECTION, Main-1 & Main-2 protection relay for HV side of transformer shall be provided with the following in-built features: Main-1 - 87T1, REF, 67/67N, 50/51, 50N/51N, 24,,86 Main-2 - 87T1, 67/67N, 50/51, 50N/51N, 24,,86. We presume that backup protection function can be inbuilt feature of main relays. Please confirm. Transformer MV side (132kV side) control & protection panel	Main-1 and Main-2 shall be two separate relays. Yes, backup protection function can be inbuilt feature with main relays. Other contractor will provide protection for the 132kV cable feeder.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
		shall be provided by other contractor. Please confirm.	
72	Volume 3 of 3 Page No. SAA-7	Please furnish the following parameter regarding 300MVA, 230/132/33kV auto-transformer: 1) Impedance Pattern : Constant ohmic or Constant Percentage type? 2) Impedance between HV-TV and LV-TV at 300MVA.	It shall be as per bidding documents.
73	Volume 3 of 3 Page No. SA-11 Item no. 1L	We presume that switchyard lighting is required only for present scope of works. Please confirm.	Confirmed
74	General Page No. Diesel generator	We are not envisaging DG set for the project as no line item is available in BPS for the same. Please confirm.	Confirmed
75	General Page No. Earthing	We presume that earthing & gravel filling in the new switchyard are required only for the bays under present scope of work. Please confirm. Also please confirm whether the gravel removed from the existing 132kV AIS switchyard can be re-used for present scope of works.	This is a turnkey contract. Necessary earthing which is required for proper operation and safety requirement to complete the works as per scope requirement & specification mentioned in the bidding document including future bays shall have to be done by the contractor. Removed gravel may be reused if comply with the specification as per section-12 of volume-2 of the bidding document.
76	Volume 2 of 3 (Part 2) Page No. Drawing - DCMPGSP/PKSS-3/MAD/08 - SUBSTATION AUTOMATION SYSTEM ARCHITECTURE	We presume that Parallel redundant protocol / HSR is not required for the bay level IED communication to SAS as the same is not indicated in the technical specification. Please confirm whether Bidder's understanding is correct.	It shall be as per bidding documents.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
77	Volume 2 of 3 (Part 1) Page No. Clause no. -4, Power transformer	We presume that the following online monitoring systems are not envisaged for transformers supplied under this package, as the same are not mentioned in the technical specification: a) Online Oil drying system b) Online bushing monitoring system c) Online DGA d) Fiber optic temperature monitoring system.	It shall be as per bidding documents.
78	Volume 2 of 3 (Part 1) Page No. 6-14. Clause no. 6.11.4, All cable trays shall be Perforated.	As per referred clause, cable trays are to be perforated. Kindly specify whether ladder type cable trays can be used instead of perforated trays.	As per the bid requirement.
79	Volume 2 of 3 (Part 1) Page No. 7-3. Soil resistivity (Cl.7.5)	Soil resistivity of 100 ohm-m is specified for bid submission. Please clarify how the adjustments can be made during detail engineering if the soil resistivity value increases or decreases?	Earthing design calculation shall be submitted by the contractor during detail engineering as per actual soil resistivity. 100 ohm-m is a typical value for bidding purpose only.
80	Volume 2 of 3 (Part 1) Page No. 7-5. Backfill above main earth mat	As mentioned in Cl. 7.7.3 of Volume 2, after laying main earth mat and backfilling, bricks are to be used for filling upto finished site level. Kindly clarify whether bidder can use gravel instead of bricks.	As per the bid requirement.
81	Volume 2 of 3 (Part 1) Page No. 10-2. Clause No. 10.1 - NLDC integration	We presume that the existing communication infrastructure are adequate for transmission of signals to NLDC and hence supply, installation, testing & commissioning of the same is not envisaged under present scope of works. Please confirm.	Not confirmed. All the 230kV bays have to be intregated to NLDC separately.
82	Volume 2 of 3 (Part 1) Page No. 13-20. Clause 13.28, Indoor light fixtures	As per the referred clause Fluorescent tube light fixtures are indicated. Hence we do not envisage supply of LED fixtures for indoor lighting. Please confirm whether Bidder's understanding is correct.	LED fixtures for indoor lighting are acceptable.
83	Volume 2 of 3 (Part 1) Page No. Cable laying in trenches	We propose to lay cables on support angles in outdoor trenches. For SPR room, cables shall be laid in ladder trays. Please confirm.	Not acceptable.
84	Volume 2 of 3 (Part 1) Page No. Outdoor lighting	Please confirm whether light fixtures shall be mounted on towers and Lightning-cum-Lighting masts.	It will be confirmed during design stage.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
85	General Page No. Order of Precedence	Technical requirements for the tender are specified in 3 broad categories - 1) Bid Price Schedule; 2) Technical specifications - Volume 2 of 3 and Volume 3 of 3; 3) Tender drawings like SLD & Layout. In case of contradictions among these documents, please inform the order of precedence - which one will prevail over others.	It shall be as per bidding documents.
86	Volume 2 of 3 (Part 1) Page No. 7-4. Clause no. 7.6	As per referred clause, Earthing buried conductor shall be sized for 50kA for 1 sec for 230kV system. However, as per clause no. 1.4.1, Rated short circuit current for 230kV system shall be 50kA for 3 sec. Please check and confirm the duration for earthing conductor sizing.	Rated short circuit current for 230kV system shall be 50kA for 3 sec.
87	Volume 2 of 3 (Part 1) Page No. 5/3. Clasue no. 5.1	We presume that only main relays and SAS has to be procured from the list of manufacturers mentioned in Cl.5.2. In this regard we presume the following: a) Bidder can supply Indian make panels & auiliary relays b) Assembly and testing of can be done at local factory in India. Please confirm.	Not acceptable.
88	General Page No. Type test reports	We are not envisaging of repetition of type test for any equipment. Valid type test reports shall be submitted during detail engineering for similar or higher rating equipment. Please confirm.	Confirmed
89	General Page No. Dynamic short circuit test for transformer	We are not envisaging dynamic short circuit test for power transformer. Dynamic short circuit capability of transformer shall be confirmed by means of calculation. Please confirm.	Not acceptable.
90	General Page No. PQ test for 132kV cable	We understand that no Pre-qualification tests are necessary for the cabling system offered. Please check and confirm. If PQ tests are required, please inform to all Bidders to have an uniform & transparent Bidding.	It shall be as per bidding documents.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
91	Volume 2 of 3 (Part 2) Page No. Drawing - DCMPGSP/PKSS-3/MAD/09 - Communication network scheme	We are not envisaging extension of existing FOTE system at 400/230kV Madunaghat station. Please confirm whether understanding is in order. If required, please furnish the make & model no. of existing FOTE system at 400/230kV Madunaghat station.	It shall be as per bidding documents.
92	Vol. 2 Page No. Page No.5/35 5.18.6.3, Backup control panel	As per the referred clause, Distributed back-up control mimics with associated switches meters and Indicating LED's are mentioned. As the substation is SAS based & dedicated LCCs are provided for each GIS bay, we propose control & operation through SAS based system only without any Backup control panels. Please confirm. If hardwired backup control mimic is required, please clarify whether backup mimic fully supervised with an electronic system is acceptable.	It shall be as per bidding documents.
93	GENERAL	BPS and Specification requirement In case of any discrepancy between Bid-Price Schedule and Section Project Requirement, Price Schedule will prevail. Please confirm our understanding.	This is a turnkey contract. If any item missing from the price schedule which are mandatory for the commissioning of the substation that has to be provided by the contractor without any cost.All others issues will be solved as per the terms and conditions of the contract.
94.	Vol. 2 SCOPE OF WORK SECTION 1, 1.2 Brief Description of Works	Station AC and DC power facilities We understand that the new AC and DC systems comprising of Battery Bank, Battery Charger, ACDB and DCDB etc. are to be provided taking into consideration the loading of the new 230kV proposed system only.	In addition, bidders shall consider additional 25% spares for future provision.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
95.	Vol. 2 SCOPE OF WORK_SECTION 1, 1.3.4 TERMINAL POINTS	"For 415/240V auxiliary power and 110V DC Connections 415/240V auxiliary power and 110V DC distribution boards for 230kV GIS and autotransformer equipment will be connected to the existing 415/240V auxiliary power and 110V DC distribution boards located in the existing 132kV GIS Building. All required outgoing switches and cables in the existing AC and DC boards will be supplied and installed under this contract in accordance with relevant drawings." As per this clause bidder to extend AC and DC supply from existing 132kV substation ACDB/DCDB board, we understand spare feeder module of required capacity is available in existing ACDB/DCDB to provide AC/DC power for new ACDB/DCDB for proposed 220kV GIS substation.	Bidder should refer to replies to the queries no.48 and 50 above.
96.	Vol. 2 SCOPE OF WORK_SECTION 1, 1.3.4 TERMINAL POINTS	"For 415/240V auxiliary power and 110V DC Connections 415/240V auxiliary power and 110V DC distribution boards for 230kV GIS and autotransformer equipment will be connected to the existing 415/240V auxiliary power and 110V DC distribution boards located in the existing 132kV GIS Building. All required outgoing switches and cables in the existing AC and DC boards will be supplied and installed under this contract in accordance with relevant drawings." As per this clause bidder to extend AC and DC supply from existing substation ACDB/DCDB board, however as per price schedule "1I", battery/battery charger/DCDB items are there. PGCB to confirm bidder has to provide separate battery and battery charger for 110V DCDB supply for new proposed substation as per price schedule, or this DC supply shall be tape from existing 132kV existing substation DCDB to new proposed DCDB? Please confirm requirement and provide revised tender documents accordingly.	Bid drawings for AC and DC supply shall be considered.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
97.	Vol. 2, SCOPE OF WORK_SECTION 1, 1.2_1 brief description of the scope of works	Dismantling and removal of the existing 132kV substation equipment and concrete structures in order to free space for construction of 230kV substation. As per drawing "DCMPGSP/PKSS-3/MAD 002", proposed 220kV outdoor GIS substation layout is shown, however we have not seen any existing 132kV substation equipment in proposed substation site. Request PGCB to provide the layout for existing 132kV substation to bidder for reference.	Bidders are encouraged to visit the site and investigate by themselves at the existing substation and price shall be estimated as one lot.
98.	Vol. 2, SCOPE OF WORK_SECTION 1, 1.2_1 brief description of the scope of works	Dismantling and removal of the existing 132kV substation equipment and concrete structures in order to free space for construction of 230kV substation As per drawing "DCMPGSP/PKSS-3/MAD 002", proposed 220kV outdoor GIS substation layout is shown, however we have not seen any existing 132kV substation equipment in proposed substation site. Request PGCB to add items in price schedule which need to be dismantled like towers, beam equipment's etc.	Bidders are encouraged to visit the site and investigate by themselves at the existing substation and price shall be estimated as one lot.
99.	Volume 3, SCOPE: SCHEDULE A, IK2 PAGE SA-11	Removed concrete and other wastages shall be transferred from site by the contractor. Please specify the distance of damping yard where non service materials to be disposed. Further we assume that serviceable materials will be handed over at site and for non serviceable materials damping land will be provide by PGCB. Please confirm.	Contractor is responsible for finding the nearest damping yard to transfer the wastages from substation by their own responsibility.
100.	Volume 3, Price schedule -1, 2_ 1.C.4 132kV GIS cable termination	Please clarify the requirement and confirm whether the female parts of the termination kits are already installed in the existing GIS? We understand bidder to provide only Male contact part for 132kV termination kits. Please confirm.	Both female and male parts of the termination shall be considered within the scope of supply under this project.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
101	Volume 2, SCOPE OF WORK_SECTION 1_1.2 brief description of the scope of works	132kV side of 300MVA transformers will be connected by cable, under this contract, to GIS bays, included in 132/33kV GIS Substation project under the contract ICB No.: PSEEIP (TRANCHE-3)/ADB/PGCB/P03/SS. Bidder to connect 132kV cable coming from new proposed substation to existing 132lkV GIS, we understand PGCB shall be provide shut down for existing system as per the bidder requirement during execution stage.	Your understanding is correct. 132kV GIS bays for autotransformer connections will only be switched off and disconnectors locked in open position.
102	Volume 2, HV SWITCHGEAR AND NEUTRAL EARTHING EQUIPMENT_SECTION 3_3.5.4.1	Local Control Cubicle We understand Local control cubicle for 220kV outdoor GIS shall be suitable for outdoor installation and shall be located near to GIS module.	Confirmed.
103	SPR drawing As per drawing "DCMPGSP/PKSS-3/MAD 010'	As per drawing we understand 14X10 Sq. meter SPR has two rooms, one room for control relay panel and one room for battery. We understand that ACDB/DCDB board shall also locate in relay room. Please confirm.	The size of the SPR on the drawing is not final. Bidders shall take in consideration all present and future scope (considering 7 additional future bays) of substation equipment for estimation of the actual size. ACDB/DCDB shall be in the SPR.
104.	Volume 2, SCOPE OF WORK_SECTION 1_1.2.4 brief description of the scope of works	"132kV cables between the auto transformers and existing 132kV GIS transformer bays in the 132kV GIS Building" We understand that 132kV cable shall be laid buried in Trefoil formation. Please confirm.	Not confirmed. Cables will be laid in air, in concrete trench in trefoil formation, supported by steel angles cable trays.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
105	Price schedule-1, 2, item 1.H.2 Portable(maintenance) earthing equipment device	Please provide the detail for Portable(maintenance) earthing equipment device.	Portable earthing cables with clamps suitable to connect substation switchgear phase conductors to nearest earthing point for safety reasons, during maintenance work.
106.	Price schedule -1, 2_ 1.E.2 "230/132/33 kV, 235/300 MVA (ONAN/ONAF), three phase outdoor type Auto Transformer"	As per price schedule, Transformer rating is 230/132/33 kV, we understand that 33kV side of Auto Transformer shall be unloaded type. Please confirm.	Not confirmed. It shall as per Volume 3 APPENDIX A2, Autotransformer technical requirements A2-1.
107.	Main Earth mat	We understand that main earth mat of proposed substation shall be connected with existing 132kV GIS substation earth mat. Bidder need not to submit any grounding calculation for earth mat design, bidder need to match main mat spacing as per existing system? please confirm.	Bidders shall consider submission of complete design for earthing mat against 230kV switchyard separately during project execution. Regarding the connection of the new mat to the existing mat will be decided by the project engineer during execution.
108.	Existing Main Earth mat	We understand Bidder to connect main earth mat of proposed substation to existing 132kV substation earth mat, request PGCB to provide existing Main mat spacing for our estimation purpose.	Bidders shall consider submission of complete design for earthing mat against 230kV switchyard separately during project execution. Regarding the connection of the new mat to the existing mat will be decided by the project engineer during execution.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
109.	Existing Main Earth mat	Request PGCB to provide existing Main mat / Earthmat layout for our reference.	Existing earthing mat layout is not available. Bidders are requested to visit the site.
110	SCOPE OF WORK_SECTION 1_1.2_4 Brief Description of Works	Space for future extension of 4 transmission line GIS bays and 1 transformer bay As per scope of work bidder need to consider space provision for 5 numbers future bays, however as per tender SLD "DCMPGSP/PKSS-3/MAD 001' 4 numbers future bays are shown please confirm the final requirement.	Space for future extension of 7 future GIS shall be envisaged and included in the bid.
111.	SCOPE OF WORK_SECTION 1_1.2 Brief Description of Works	Station AC and DC power facilities We understand that for ACDB and DCDB, number of outgoing feeders and Rating shall be decided during execution stage as per the actual requirement. Kindly confirm.	Not Confirmed. It will be estimated by bidder and included in price schedule. However, during contract execution calculation has to be provided for finalization of ratings and any changes proposed by PGCB shall be incorporated. Bidders shall also consider 25% spare feeders for future provision.
112.	SCOPE OF WORK_SECTION 1_1.2 Brief Description of Works	Station AC and DC power facilities We understand that the cable sizes for incoming and outgoing cable connection for ACDB and DCDB shall be decided during execution stage at actual load basis. Kindly confirm.	As per the bid requirement.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
113.	SCOPE OF WORK_SECTION 1_1.2 Brief Description of Works	Station AC and DC power facilities We have not envisaged any MLDB/ELDB board for Illumination, we understand that all lighting load (indoor and outdoor lighting DB) shall be connected from ACDB. Please confirm.	It shall be as per bidding documents.
114.	Type Test	As per price schedule, we understand that there is no requirement of any repetitive Type Test. We understand that bidder to submit valid Type test reports as per specification and relevant standards.	It shall be as per bidding documents.
115.	SCOPE OF WORK_SECTION/ Price schedule Outgoing line tension string	As per price schedule we understand and scope of work, we understand our scope is limited up to switchyard gantry. We have not envisaged any Tension string for outgoing line gantry in bidder scope. Further, supply & erection of conductor and any other accessories is excluded from bidder scope of work. Please confirm	Bidders are requested to read the Clause 1.3.1 of volume 2 of 3(Part-1) of the bidding document for transmission line termination with gantry. Moreover as a turnkey contract to complete the proposed 230/132kV Madhunaghat substation Contractor of this contract is responsible for any kinds of work which is required for successful commissioning and deemed to be included in the scope of work.
116.		We are estimating the lot quantity based on the tentative tender layout plan. If there is any change in the tender layout (Equipment & building arrangement) during detail engineering, it shall call for the extra price implication. Please confirm.	The layout provided with this bidding document is tender purpose only. The contractor will prepare and finalize the overall layout at the time of detail engineering if awarded. The contractor will be responsible for detail GIS layout, SPR etc. design after award of the contract.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
117.	Terminal points	In existing control room buildings/GIS building, we have not envisaged any illumination, cable trench, firefighting, HVAC etc. work in bidder scope. Kindly confirm	Confirmed. However, bidders shall consider to provide cable supports inside the GIS building up to the point of connection.
118	Terminal points	In existing 132kV switchyard and 33kV switchyard we have not envisaged any illumination, cable trench, firefighting, DSLP, earthing, Gravel, any civil work etc. in bidder scope. Kindly confirm	Not Confirmed, cable trench to 132kV GIS and Control building is required. Earthing and DSLP calculation shall have to be submitted by the Contractor for current scope and shall comply the overall substation. Moreover, here existing means the new 132/33kV GIS substation only.
119	Main earth mat	In proposed substation layout no fence area is shown for proposed 220kV GIS substation, we understand bidder to provide main earth mat for area covered by 220kV GIS substation equipment/gantries/building only.	It shall be as per bidding documents.
120	SCOPE 1F1 SA-8 Requirements	Main line differential protection relays shall be of the same manufacturer type as those provided for 400/230kV Madunaghat substation. Please provide us the make and model of the differential protection relays installed at 400/230kV Madunaghat Substation	RED670 and REL670 from ABB

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
121	Price schedule Sl no 1F.5, Tariff metering for 230kV system	We understand that 02 Nos. energy meters for each 230kV lines and power transformer bays under present scope shall be mounted in respective bay C&R panels. Hence separate tariff metering panels are not envisaged. Please confirm our understanding.	Not Confirmed. Separate panel shall be provided.
122	Price schedule Sl no 1M Fiber Optic Multiplexer Equipment for Communication and Protection	We understand that FOTE equipment supply and integration work required for remote end 230kV line bays under present scope is excluded from the bidder scope. Please confirm our understanding.	Your understanding is not correct. If any Optical Interfaces are required for system configuration at each remote end substation, then interface devices shall be installed in each existing system as per requirement.
123	Price schedule Sl no 1F.4 Control, Monitoring, Protection & Substation Automation System for one (1) lot of 245kV busbars	We understand that the Scope of 245kV Bus bar protection is to be consider only for present scope of 245kV Bays, not for future bays. Please confirm our understanding.	Confirmed. However, the central unit shall have spare connections for future bays.
124.	Price schedule Sl no 1F.4 Control, Monitoring, Protection & Substation Automation System for one (1) lot of 245kV busbars	We understand that busbar protection for bays under present scope shall be single bus bar protection. Redundant Busbar protection is not envisaged for 230kV systems. Please confirm our understanding.	Bidders are requested to read carefully clause 5.9.1 of volume 2 of 3(part-1) of the bidding document. The busbar protection shall be low impedance type numerical relay for double bus bar scheme.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
125.	Price schedule "Drawing No: DCMPGSP/PKSS-3/MAD/005/Date:08-02-2018" Transformer Restricted earth fault protection.	We understand that 87T1, REF,67/67N shall be a part of Main-1 differential relay and 87T2,67/67N shall be a part of Main-2 differential relay. Please confirm our understanding.	Confirmed.
126.	"TECHNICAL SPECIFICATION" 5.18.6.3, 5/36 "SUBSTATION AUTOMATION"	Distributed back-up control mimics with associated switches meters and Indicating LED's shall also be provided on these cubicles. We understand that the Bay Control Unit offered shall be having the mimic function and no Mimic Control panels shall be required. Please confirm our understanding.	Your understanding is not correct. As per the tender requirement separate backup control MIMIC is required.
127	"TECHNICAL SPECIFICATION" 5.21 5/49 "SUBSTATION AUTOMATION"	Make of DFDR shall be Qualitrol (UK) / SEL (USA)/ Siemens (Germany) for standardization of operation performance, facilities and spare requirements The make as specified are Qualitrol, SEL and Siemens. We request for incorporation of GE make DFDR satisfying the Technical Specification.	As per the tender requirement.
128	"TECHNICAL SPECIFICATION" 5.11 5/20 "SUBSTATION AUTOMATION"	Check synchronizing relays shall comply with the requirements of Clause 5.24. 1. The same relays may be used as for manual closing We understand that since all the Protection panels shall be SAS based, the Synchronization scheme, if offered as part of BCU shall be accepted by PGCB. Please confirm our understanding.	As per the tender requirement.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
129	"TECHNICAL SPECIFICATION" 5.22 5/51 "SUBSTATION AUTO-MATION"	Energy Meter (Tariff Metering) Please specify the make of the Energy meters that shall be applicable for this project.	Landis+Gyr, Switzerland Cewe, UK
130	GENERAL	Please confirm that the existing soil will not have any contamination.	Bidders are encouraged to visit the site and investigate by themselves.
131	Scope 12.1.1.(i) 296/452 Soil investigation Site survey and soil investigation	In BPS there have no such item for soil investigation and contour survey, so kindly include the same in price schedule or kindly provide soil investigation report of existing substation as tender document.	The contractor is responsible for site survey, subsoil investigation and any other things which are required to complete this turnkey contract if awarded and the cost of which are deemed to be included in item 1K3. Bidders are requested to visit the site for clear understanding of the scope and they are responsible for assessment of the estimated amount by themselves
132	Scope 12.1.1.(ii) 296/452 Soil filling	Site preparation including cleaning, grubbing land filling, retaining wall .... Cutting filling In BPS there have no such item for stated item in description, so kindly include the same in BPS.	Price of these works shall be included in item 1K3.

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133.	Scope 12.1.1.(iv) 296/452	"Including in the scope of work is the detailing construction and maintenance .... Following items a) Guard items b) Boundary wall and entrance gate d) under ground water tank where water supply pressure is low. e) water supply tube well. f) underground water storage tank" In price schedule there have no such description stated items , so we assumed that there have no requirement of said items for proposed 230KV GIS substation package. Please confirm.	Confirmed
134.	Scope 1K1 58/147	Identification and relocation control and protection cable for existing 33KV feeder. Kindly specify the length and detail specification of proposed cable trench for 33KV feeder control & protection cables.	Please refer to the reply against query 52. Moreover, bidders are encouraged to visit the site and investigate by themselves.
135.	Scope 1K3. x) 58/147	Septic tank and soak way As per scope matrix there has no utility building, so we are unable to under stand the actual requirement of septic tank and soak way. So kindly recheck and revise your price schedule accordingly.	Bidder shall include in 1K3 only price for items that are required. However, soakaway is required for switchyard surface water removal and septic tank also required for SPR.
136.	Scope 1K4 58/147 SPR Building	We trust that tender drawing DCMPGSP/PK SS-3?MAD/010 dated 26.02.2018 shall be applicable for proposed tender.	The size of the SPR on the drawing is not final. Bidders shall take in consideration all present and future scope (considering 7 additional future bays) of substation equipment for estimation of the actual size

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137.	GENERAL	It is assumed that encumbrance free and accessible land will be handed over to the successful bidder at the time of placing of order and project Zero date will be calculated from same date. Please confirm.	Confirmed
138.	GENERAL	Our scope excludes responsibility of obtaining approval of any kind from any external statutory body, unless otherwise it is clearly mentioned in bid document.	As per the bid requirement.
139.	GENERAL	We assumed that uprooting of tree not in bidder scope. Please confirm.	It shall be as per bidding documents.
140.	Scope 12.3.2 308/452 Pile foundation	"a) one fill sites where depth of fill exceed 3Mtr. ... pile foundation shall below building. If pile foundation are found to be unnecessary in the final site investigation report a reduction in contract value shall be agreed on the basis of schedule rates. e) Regardless of the result of soil investigation report the foundation of control building, transformer foundation, gantry structure... shall be provided with Pile." Both statement are contradictory, so kindly specify the actual requirement.	These statements are not contradictory because clause e) refers only to specified equipment foundations.

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141.	Scope 12.3.2 308/452 Pile foundation	"e) Regardless of the result of soil investigation report the foundation of control building, transformer foundation, gantry structure... shall be provided with Pile." Kindly specify the followings 1. Min. Dia of Pile 2. Min. Driving length of pile and Cut off length 3. Type of pile. Like Under reemed / end bearing type."	This is a turnkey contract. The detail design is also responsibility of the Contractor. All required foundation design including pile subject to sub-soil investigation will be submitted by the contractor and finalized by employer during detail engineering after award of contract.
142	Scope 12.3.3 310/452 Drainage	The Contractor shall be responsible for all negotiations with local authority WASA where a connection to a public sewer is proposed. We assumed that necessary official documentation will be done by PGCB and bidder responsible for connection with public sewer. Please confirm.	As per the bid requirement.
143	Scope 12.3.3 310/452 Drainage	The Contractor's drainage design shall avoid all ponded water to avoid forming a mosquito breeding ground. We assumed that all surface drain should be brick work type. Please confirm	It shall be as per bidding documents.
144	Scope 12.3.24 323/452 Bitumestic paint	"All exposed parts of foundations, the outer faces of cable trenches and cable tunnels shall be painted with two coats of bitumastic paint." Kindly confirm of our understanding 1. exposed concrete in switchyard area means expose portion of pedestal above FGL. 2. Outer side of Cable trench above FGL"	Not confirmed. Exposed concrete is the one below FGL.

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145	GENERAL	Please confirm whether construction power and water will be provided by the employer for site execution works without charging any cost.	It is the responsibilty of contructor to arrange construction water and power from nearest utility. Employer may assist for any administrative support if required.
146	SCHEDULE I 2.5 SI-5 Type Test	"Type test certificates of Power Transformer, GIS and Lightning Arrester shall be issued by any one of the independent testing laboratories listed below 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 the below listed independent testing laboratories. Short listed independent testing laboratories: - 1. KEMA Laboratories - DNV GL – Netherlands/USA 2. CESI – Italy 3. PEHLA Laboratory– Germany 4. CERDA– France 5. Powertech Laboratories Inc. – USA 6. Hitachi Ltd., High Voltage & High Power Testing Laboratory – Japan 7. Toshiba Corp. Hamakawasaki High Voltage and High Power Testing Laboratory – Japan 8. KERI – Korea" We request M/s PGCB to consider type test report witnessed by STL member representative only these labs are independent in nature STL members are: 1) Intertek (ASTA), UK	Please refer to **Addendum-1**.

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		2) CESI, Italy 3) CPRI, India 4) ESEF ASEFA, France 5) JSTC, Japan 6) KEMA, The Netherlands 7) KERI, South Korea 8) PEHLA, Germany 9)SATS, Norway 10) STLNA, USA 11) VEIKI, Hungary 12) ZKU, Czech Republic"	
147	GCC 7.2 7-9 "Scope of facilities"	"Clause 7.2 The Contractor shall, unless specifically excluded in the Contract, perform all such work and/or supply all such items and materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Completion of the Facilities as if such work and/or items and materials were expressly mentioned in the Contract." Any additional work resulting from change of scope/ design will be carried out as per the GCC clause 39. Request you to please confirm.	It shall be as per bidding documents.
148.	GCC 9.2 7-10 "Contractor's Responsibilities"	The Contractor confirms that it has entered into this Contract on the basis of a proper examination of the data relating to the Facilities including any data as to boring tests provided by the Employer, and on the basis of information that the Contractor could have obtained from a visual inspection of the Site if access thereto was available and of other data readily available to it relating to the Facilities as of the date twenty-eight (28) days prior to bid submission. The Contractor acknowledges that any failure to acquaint itself with all such data and information shall not relieve its responsibility for properly estimating the difficulty or cost of successfully performing the Facilities.	It shall be as per bidding documents.

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		We request the Employer to provide us the routing drawings of the existing systems (e.g. cables, pipelines etc.) passing through the area of the proposed substation. We also request the Employer to note and confirm that the underground hindrances existing in the proposed substation area cannot be ascertained during site visits and hence cannot be foreseen beforehand.	
149.	GCC 10.1 7-11 "Employer's Responsibilities"	All information and/or data to be supplied by the Employer as described in the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement shall be deemed to be accurate except when the Employer expressly states otherwise. We understand that the Contractor will be entitled to extension of time for any delays not attributable to the Contractor including delays on account of inaccurate or incorrect information supplied by Employer. Request you to please confirm the same.	It shall be as per bidding documents.
150.	GCC 11 7-12 "Contract Price"	Unless an escalation clause is provided for in the SCC, the Contract Price shall be a firm lump sum not subject to any alteration, except in the event of a Change in the Facilities or as otherwise provided in the Contract We understand that the Price Variation clause will be applicable in the contract and the calculations of the price variation will be governed by Appendix-2 of the Contract Document. Please confirm whether the Price Variation clause will be applicable on all the items covered in Schedule 1 and 2 of the contracts.	Price Variation clause will be applicable only on power transformers.

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151		Please also confirm whether there is a cap on the maximum value of the Price Variation in the project.	It shall be as per bidding documents.
152	GCC 12 7-12 Terms of Payment	In the event that the Employer fails to make any payment by its respective due date or within the period set forth in the Contract, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the rate(s) shown in the Appendix (Terms and Procedures of Payment) to the Contract Agreement for the period of delay until payment has been made in full, whether before or after judgment or arbitrage award. Request you to please specify the rates of the interest of the delayed payment.	It shall be asper bidding documents. Interest for delayed payment is not applicable in this contract.
153	GCC 15.2 7-14 Interest License / Use of Technical Information	The copyright in all drawings, documents and other materials containing data and information furnished to the Employer by the Contractor herein shall remain vested in the contractor or, if they are furnished to the Employer directly or through the Contractor by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party. "The Employer shall be obligated to use the drawing, document and other materials for the intended purpose only and shall indemnify and keep the Contractor indemnified against any losses, claims, damages, penalty and compensation arising out of or in connection thereto"- We request for the incorporation of the above clause in the contract.	It shall be as per bidding documents.

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154	GCC 22.6 7-28 Emergency Work	If, by reason of an emergency arising in connection with and during the execution of the Contract, any protective or remedial work is necessary as a matter of urgency to prevent damage to the Facilities, the Contractor shall immediately carry out such work. We understand that the Contractor shall be entitled to claim reasonable actual costs for any emergency work carried out. We request you to please confirm the same.	It shall be as per bidding documents.
155	GCC 25.2.27-32 Guarantee Tests	If for reasons not attributable to the Contractor, the Guarantee Test of the facilities or the relevant part thereof cannot be successfully completed within the period from the date of Completion specified in the SCC or any other period agreed upon by the Employer and the Contractor, the Contractor shall be deemed to have fulfilled its obligations with respect to the Functional Guarantees, and GCC Sub-Clauses 28.2 and 28.3 shall not apply. We understand that the Guarantee Test is applicable only for Power Transformers, for quoted losses as per tender condition, and it is not applicable for other equipment. Please confirm our understanding.	It shall be as per bidding documents.
156	GCC 27.8 7-37 Defect Liability Period	If the Facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part cannot be used by the Employer because of any of the aforesaid reasons. We request that notwithstanding anything contained in the said clause, the liability of the contractor shall cease to exist beyond 12 months from the date of Operational Acceptance	It shall be as per bidding documents.
157	GCC 29 7-38 "Patent Indemnity"	Such indemnity shall not cover any use of the Facilities or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, any infringement resulting from the use of the Facilities or any part thereof, or any	It shall be as per bidding documents.

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		products produced thereby in association or combination with any other equipment, plant or materials not supplied by the Contractor, pursuant to the Contract Agreement. " We request that notwithstanding anything contained in the said clause, the contractor shall have no obligation or liability with respect to any Claim based on a) Products or Services that have been modified, or revised b) failure of Employer to implement any update provided by Contractor that would have prevented the Claim or c) Products or Services made or performed to the Employer's Specification"	
158	GCC 30 7-38 "Limitation of Liability"	"Except in cases of criminal negligence or willful misconduct, (a) the Contractor shall not be liable to the Employer, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer and" "We request that the terms Gross Negligence and Willful Misconduct shall have following meaning: 1.1 "Gross Negligence" means tortious acts or omissions by Seller's Managerial or Supervisory Personnel, well in excess of negligence and amounting to an intentional disregard of a grave, known risk, where such disregard constitutes an extreme deviation from even minimal care. 1.2 "Willful Misconduct"" means, on the part of a Party's Managerial or Senior Supervisory Personnel, an intentional and wrongful act, or an intentional and wrongful omission of some act, in either case with the intent to inflict damage or injury.	It shall be as per bidding documents.

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		1.3 "Managerial or Senior Supervisory Personnel" means any person employed by a party that is not an hourly worker, clerk, craft laborer, mechanic, foreman, subcontractor, engineer, inspector, Technical Advisor ("TA"), TA Site Manager, Customer Performance Manager, first level of managerial or supervisory personnel, or Senior Supervisory Personnel, an intentional and wrongful act, or an intentional and wrongful omission of some act, in either case with the intent to inflict damage or injury."	
159	GCC 33 7-41 "Loss of or Damage to Property; Accident or Injury to Workers; Indemnification"	"Subject to GCC Sub-Clause 33.3, the Contractor shall indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, in respect of the death or injury of any person or loss of or damage to any property other than the Facilities whether accepted or not, arising in connection with the supply and installation of the Facilities and by reason of the negligence of the Contractor or its Subcontractors, or their employees, officers or agents, except any injury, death or property damage caused by the negligence of the Employer, its contractors, employees, officers or agents." "We request for incorporation of the following clause: Employer (as an "indemnifying party") shall indemnify the contractor (as an "indemnified party") from and against claims brought by a third party, on account of personal injury or damage to the third party's tangible property, to the extent caused by the negligence of the indemnifying party in connection with this contract. In the event the injury or damage is caused by	It shall be as per bidding documents.

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		joint or concurrent negligence of the Employer and contractor, the loss or expense shall be borne by each party in proportion to its degree of negligence. For purposes of contractor's in-demnity obligation, no part of the products or site is considered third party property"	
160	GCC 42.2.3 7-54 Termination for Contractor's Default	deliver to the Employer all drawings, specifications and other documents prepared by the Contractor or its Subcontractors as of the date of termination in connection with the Facilities. We understand that such sharing of documents would mean only non-proprietary information in readable format.	It shall be as per bidding documents.
161	GCC 42.3.3 (d) (iii) 7-56 Termination by the Contractor	deliver to the Employer all drawings, specifications and other documents prepared by the Contractor or its Subcontractors as of the date of termination in connection with the Facilities. We understand that such sharing of documents would mean only non-proprietary information in readable format.	It shall be as per bidding documents.
162	GCC 43.1 7-59 Assignment	"We request you to add the following: Nothing herein shall affect the right of the Contractor to assign receivable under the Contract by way of factoring."	It shall be as per bidding documents.

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163	SCC 24 8-12 Completion of facilities	Upon the completion of construction, the Contractor shall fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition as recorded by the Contractor in consonance with its obligation in Clause 21.1. As the work will be carried out within an existing substation, we envisage that the existing facilities like roads will be utilized for the construction work. However unless an facility is explicitly damaged by our work, we will not be liable to repair the existing facilities. Please confirm the same.	It shall be as per bidding documents.
164	Request for incorporation of additional clauses	"NO NUCLEAR USE The Material/ equipment/ services sold by the Contractor are not intended for use in connection with any nuclear facility or activity, and Employer warrants that it shall not use or permit other to use the material/equipment/services for such purpose, without advance written consent of Contractor. If in breach of this, any such use occurs, Contractor (and its parent, affiliate, suppliers and subcontracts) disclaims all liability for any nuclear or other damage, injury or contamination, and, in addition to any other rights of Contractor, Employer shall indemnify against all such liability. Consent of Contractor under this section to any nuclear use, if any, will be conditioned upon additional terms and conditions that Contractor determines acceptable for protection against nuclear liability. "	It shall be as per bidding documents.
165	Request for incorporation of additional clauses	"SAFETY Contractor has no responsibility or liability for the pre-existing condition of Employer's equipment or the Site. Prior to Contractor starting any work at Site, Employer will provide documentation that identifies the presence and condition of any Hazardous Materials existing in or about Employer's equipment or the Site that Contractor may encounter while performing un-	It shall be as per bidding documents. However, contractor is fully responsible for maintaining safety measure during execution of the project.

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		der this Contract. Employer shall disclose to Contractor industrial hygiene and environmental monitoring data regarding conditions that may affect Contractor's work or personnel at the Site. Employer shall keep Contractor informed of changes in any such conditions."	
e166	Request for incorporation of additional clauses	"Intellectual Property Rights Each party shall retain ownership of all Confidential Information and intellectual property it had prior to the Contract. All rights in and to Firmware and software not expressly granted to Employer are reserved by Contractor. All new intellectual property conceived or created by Contractor in the performance of this Contract, whether alone or with any contribution from Employer, shall be owned exclusively by Contractor. Employer agrees to deliver assignment documentation as necessary to achieve that result."	It shall be as per bidding documents.
167	SCOPE 1 SA-2 Brief Description of Works	"extension of existing substation automation in the existing 132kV GIS SS control building, -extension of existing fiber optic multiplexer equipment for communication & protection in the existing 132kV GIS SS control building," We understand that the new 230kV automation system to be a standalone system. Only intertripping and status communication between the new 230kV system and existing 132kV system is envisaged in scope. Please confirm.	It shall be as per bidding documents. Bidders are requested to read the scope carefully.

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168	SCOPE 2 SA-3 Training & Inspection	"International Witnessing: the following engineers nominated by the Employer shall participate in the inspection and witnessing of factory acceptance tests at manufacturers' works as follows: Transformer - 12 days GIS - 12 days" We understand that the international witnessing is for the Factory Acceptance Tests for the Transformer and the GIS to be supplied in the said package. Please confirm our understanding	Confirmed
169	SCOPE 2 SA-3 Training & Inspection	"International Witnessing: the following engineers nominated by the Employer shall participate in the inspection and witnessing of factory acceptance tests at manufacturers' works as follows: Transformer - 12 days GIS - 12 days" We request for the duration of the inspection shall be as per the manufacturer's recommendation based on the type of equipment and not 12 days for all equipment as specified in the document	It shall be as per bidding documents.
170	SCOPE 2 SA-3 Local Training	On-site instruction by the manufacturer's engineer on operations and maintenance of the (i) Substation facilities including HV Gas Insulated Switchgears & transformers (ii) protection & Substation automation system (iii) fiber optic multiplexer & digital PABX for a period of two (2) weeks and for fifteen (15) PGCB engineers in each program We request for the duration of the site training for each program shall be as per the manufacturer's recommendation based on the equipment for which training is being imparted and not 2 weeks as specified in the document.	It shall be as per bidding documents.

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171	General	We request you to furnish us the geo-tech report of the existing 132 kV AIS substation location as we could not get the same in our site visit.	Geo-tech report is not available with PGCB.
172	General General	We understand that the land for carrying out the construction works in this project is under PGCB possession. Kindly confirm.	Confirmed.
173	Volume 1 Article 3 Effective Date Article 3 Effective Date	We understand that PGCB will hand over a dead 132 kV old AIS substation to contractor on the effective date. Pls confirm our understanding.	Confirmed
174	Volume 2 - Scope of works Dismantling and removal of the existing 132kV substation equipment and concrete structures in order to free space for construction of 230kV substation.	1. We request you to let us know the place where the dismantled equipment is to be shifted. 2. Request you to let us know the place of disposal of waste material? 3. Is the dismantled equipment to be reused?	Dismantled equipment shall be shifted to divisional store in Chottogram area. Exact location will be finalized during execution after award. Yes, dismantled equipment will be reused if found usable. Waste shall be remove from the substation and may be shifted to nearest damping station by the contractor in their own responsibility. Only dismantled 132/33kV transformers shall be shifted to a suitable location instructed by the

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			project manager inside the substation premises. Double layer herringbone brick shall be made in new location for storing the dismantled transformers with wooden slippers.
175	Volume 2 - Scope of works Dismantling and removal of the existing 132kV substation equipment and concrete structures in order to free space for construction of 230kV substation.	In case the equipment is to be re-used by PGCB, the liability of insurance and warranty shall be in PGCB account. Pls confirm.	Dismantled equipment may reuse subject to equipment healthy condition. But contractor of this contract is responsible for dismantle all of the equipment with care and to shift/handover all of those equipment to divisional store around Chottogram area only. Exact location will be finalized during execution. Only dismantled 132/33kV transformers shall be shifted to a suitable location instructed by the project manager inside the substation premises. Double layer herringbone brick shall be made in new location for storing the dismantled transformers with wooden slippers.
176	Volume 2 - Scope of works Dismantling and removal of the existing 132kV substation equipment and concrete structures in order to free space for construction of 230kV substation.	We request you to let us know the depth below present FGL, upto which the foundation is to be dismantled.	Existing equipment pile foundation has to be completely dismantled. PGCB does not have any information on the depth of foundation.

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177	Volume 2 - Scope of works	Pls confirm whether we are required to dismantle the 132 kV transformers or not?	Yes, All kinds of equipment in the switchyard including Transformer shall have to dismantle and handover to PGCB in Chottogram area.
178		We understand that the capacitor bank room in old 132 kV AIS shall not be dismantled. Pls confirm	Confirmed.
179		We request you to avail us all the necessary permits / licenses from third party (if required) on effectiveness of contract.	As per the tender requirement
180	Section 3, HV Switchgear and Neutral Earthing Equipment, clause 3.5.6.14, page 29 3.5.6.14 This clause differs from Schedule A (Requirements), page 11 and Item 1 of Section 3 (Evaluation and Qualification Criteria)	Please confirm the max. losses per gas compartment and year is less than 0.5% Please also clarify if the requirement if for the complete bay or for every single gas compartment.	Gas leakage rate is less than 0.1% per year. This leakage rate is applicable for complete bay and every single gas compartment. Please refer to **Addendum-1**.

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181	IFB	Please confirm whether the Contract will be divisible (Supply+ Civil+ Erection) OR a Single Contract.	It will be single contract.
182	Section VIII: Special Conditions of Contract (SCC) clause 14 Taxes and duties	Kindly clarify being an Exporter for the said Bid how to pay Customs Duty for Plant and Equipment being imported in Bangladesh	Please read GCC and SCC Clause 14 of volume 1 of the bidding document.
183	"Section VIII: Special Conditions of Contract (SCC) clause 14 Taxes and duties"	Kindly clarify being an Exporter for the said Bid how to pay VAT on Plant and Equipment being imported in Bangladesh. (As per SCC 14.A it will be direct import for employer and employer will bear all custom/import duties etc.) along with Vat and AIT only.	Any material import from abroad under price schedule No. 1 shall be considered as the direct import of the Employer and the Employer shall bear and promptly pay all relevant customs and import duties as well as other local taxes, e.g., a value added tax (VAT), advance income tax (AIT) and other charges, which imposed by the law of the country, that are to be incorporated into the facilities. The Bidder shall quote bid-prices of all items of the price schedules under this contract exclusive of VAT. The items under price schedule No.1 shall be quoted exclusive of customs duties, VAT, AIT and other relevant duties and taxes. If any VAT is applicable for any or all of the items under this contract, the Employer

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			shall bear and deposit the same to the govt. ex-chequer as per prevailing law of the Employer's Country.
184	"Section VIII: Special Conditions of Contract (SCC) clause 14 Taxes and duties"	We understand that all the Customs duties, VAT, AIT and other relevant duties and taxes shall be borne by the employer. Please confirm our understanding (Refer SCC Clause 14.a(Replaced with Sub Clause no 14.2)	Any material import from abroad under price schedule No. 1 shall be considered as the direct import of the Employer and the Employer shall bear and promptly pay all relevant customs and import duties as well as other local taxes, e.g., a value added tax (VAT), advance income tax (AIT) and other charges, which imposed by the law of the country, that are to be incorporated into the facilities. The Bidder shall quote bid-prices of all items of the price schedules under this contract exclusive of VAT. The items under price schedule No.1 shall be quoted exclusive of customs duties, VAT, AIT and other relevant duties and taxes. If any VAT is applicable for any or all of the items under this contract, the Employer shall bear and deposit the same to the govt. ex-chequer as per prevailing law of the Employer's Country.

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185	"Section VIII: Special Conditions of Contract (SCC) clause 14 Taxes and duties"	We understand that the VAT is applicable only on on-shore services quoted in Price Schedule No.4. Please confirm our understanding. SCC Clause 14.b	The Bidder shall quote bid-prices of all items of the price schedules under this contract exclusive of VAT
186	"Section VIII: Special Conditions of Contract (SCC) clause 14 Taxes and duties"	Please let us know for price quoted in which Price schedule shall AIT/ WHT be deducted. (However SCC 14.A is clear that Any Import From abroad for same Employer shall bear and promptly pay all customs and import duties as well as Vat and AIT on it)	Your question is not clear. Any material import from abroad under price schedule No. 1 shall be considered as the direct import of the Employer and the Employer shall bear and promptly pay all relevant customs and import duties as well as other local taxes, e.g., a value added tax (VAT), advance income tax (AIT) and other charges, which imposed by the law of the country, that are to be incorporated into the facilities. The Bidder shall quote bid-prices of all items of the price schedules under this contract exclusive of VAT. The items under price schedule No.1 shall be quoted exclusive of customs duties, VAT, AIT and other relevant duties and taxes. If any VAT is applicable for any or all of the items under this contract, the Employer shall bear and deposit the same to the govt. exchequer as per prevailing law of the Employer's Country.

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187	"Section VIII: Special Conditions of Contract (SCC) clause 14 Taxes and duties"	We request you to let us know the % of AIT/WHT that shall be deducted fro our payment. (On on shore transactions of contract)	Rate of AIT shall be as per the latest rates published by National Revenue Board.
188	"Section IX: Contract Forms Article 3 Effective Date"	"The Effective Date from which the Time for Completion of the Facilities shall be counted 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" "We request to add the following clause (d) The Employer handed over clear site(s) including necessary permits. and further the Employer handed over clear site(s) including necessary permits. If all of the above are not achieved latest within 2 months from date of the Notification of the Award for reasons attributable to the Employer then contract price and schedule shall be adjusted in mutual agreement between the Parties. "	The effective date is the contract signing date.

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189	"Volume 1 GCC Clause 9.3"	The Contractor 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 such authorities or undertakings require the Contractor to obtain in its name and which are necessary for the performance of the Contract, including, without limitation, visas for the Contractor's and Subcontractor's personnel and entry permits for all imported Contractor's Equipment. The Contractor shall acquire all other permits, approvals and/or licenses that are not the responsibility of the Employer under GCC Sub-Clause 10.3 hereof and that are necessary for the performance of the Contract. The bidder wants to modify the above last sentence as follows: The Contractor shall acquire all other permits, approvals and or licenses that are required on Contractor's name and that are applicable to its scope of the work and that are not the responsibility of the Employer under GC Sub-Clause 10.3 hereof and that are necessary for the performance of the Contract.	It shall be as per bidding documents.
190	Section X - Contract Forms - Payment procedures	We understand that 100% of payment for off-shore portion shall be through irrevocable Letter of credit. Pls confirm.	It shall be as per the payment procedures.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
191	BDS ITB 19.1	"Plant and equipment to be supplied from abroad shall be quoted entirely in foreign currency: US Dollar." Please allow Indian Rupee (INR)	It shall be as per bidding documents.
192	GCC Cl 1	"Time for Completion" means the time within which Completion of the Facilities as a whole (or of a part of the Facilities where a separate Time for Completion of such part has been pre-scribed) is to be attained, as referred to in GC Clause 8 (Time for Commencement and Completion) and in accordance with the relevant provisions of the Contract. "Time for Completion" means the time within which Completion of the Facilities as a whole (or of a part of the Facilities where a separate Time for Completion of such part has been prescribed or agreed in Project schedule) is to be attained, as referred to in GC Clause 8 (Time for Commencement and Completion) and in accordance with the relevant provisions of the Contract.	It shall be as per bidding documents.
193	GCC & Contract Agreement 1.1 Defnitions & Article 3 of Contract Agreement (CA) "3.1 Effective Date (Reference GC Clause 1) The Effective Date is the Contract Signing Date. "	"Please modify the clause as below: The Effective Date from which the Time for Completion of the Facilities shall be counted 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 perfor-mance security and the advance payment guarantee; (c) The Employer has paid the Contractor the advance pay-ment. (d) The Contractor has been advised that the financial closure of the Project has been achieved and Letter of Credit has been issued in favor of Contractor.	It shall be as per bidding documents.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
		(e) The Site is fully handed over to Contractor and all the approvals,permits and liscences required to execute the Project are in place. If the conditions listed above are not fulfilled within two (2) months from the date of Notification of Award because of reasons not attributable to the Contractor, the Parties shall discuss and agree on an equitable adjustment to the Contract Price and the Time for Completion and/or other relevant conditions of the Contract."	
194	SCC Cl 9.3	""The Contractor shall also acquire and pay for all permits (except import permits), approvals and/or licenses from all local, state or national government authorities or public service (such as Local municipal authority, Gas pipe line authority, Local electricity distribution authority, LGED etc for construction works) 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, and (c) are specified in the Appendix (Scope of Works and Supply by the Employer). The cost of acquiring such permits, approvals and/or licenses shall be deemed to be included in the Contract Price."" "Pls consider as below: Contractor responsibilities should be limited to acquire and pay for permit as required in the Contractor's name for execution of the contract."	It shall be as per bidding documents.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
195	GCC Cl 10.2	"Pls add as below: Employer to provide in Facilities 1.Full handover of Site with clear External and internal access to Site, 2.Access points of Construction Power and Construction Water within reasonable distance from work area within the Site. 3.Boundary wall to the Site 4.Rights of access as required for Completion of Project Scope"	It shall be as per bidding documents.
196	SCC PC 10.3 Employer shall give administrative support to accord permits, approvals and/or licenses from local, state or national government authorities or public service undertaking in the country where the Site is located. Employer shall also give all necessary support to the Contractor to pay for all permits, approvals and/or licenses from local, state or national government authorities or public service undertaking in the country where the Site is located which (a) such authorities or undertakings require to obtain 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	"Request to modify the clasue as below: Employer shall give administrative support to accord provide permits, approvals and/or licenses from local, state or national government authorities or public service undertaking in the country where the Site is located. Employer shall also give all necessary support to the Contractor to pay for all permits, approvals and/or licenses from local, state or national government authorities or public service undertaking in the country where the Site is located which (a) such authorities or undertakings require to obtain 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 shall be deemed to be included in the Contract Price."	It shall be as per bidding documents.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
	and/or licenses shall be deemed to be included in the Contract Price.		
197	SCC PC 10.3 "The Employer shall provide sufficient, properly qualified operating and maintenance personnel for pre-commissioning, commissioning and guarantee tests. The Employer shall not supply any raw materials, utilities, lubricants, chemicals, catalysts, facilities, services and other matters for pre-commissioning, commissioning and guarantee tests. The Contractor shall perform precommissioning, commissioning and guarantee tests in accordance with the terms and conditions of the contract. A representative of the Employer will witness the tests and certify them accordingly."	"Request to modify the clasue as below: The Employer shall provide sufficient, properly qualified operating and maintenance personnel, availability of Power lines at rated voltage for pre-commissioning, commissioning and guarantee tests. The Employer shall not supply any raw materials, utilities, lubricants, chemicals, catalysts, facilities, services and other matters for pre-commissioning, commissioning and guarantee tests. The Contractor shall perform precommissioning, commissioning and guarantee tests in accordance with the terms and conditions of the contract. A representative of the Employer will witness the tests and certify them accordingly."	It shall be as per bidding documents.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
198	Contract Agreement Appendix 6	Employer shall provide construction power & water inside the facilities at single point on chargeable basis to Contractor. Pls confirm.	It is the responsibility of contractor to arrange construction water and power from nearest utility. Employer may assist for any administrative support if required.
199	Contract Agreement Appendix 2	"Please confirm the following if 1. Country of Origin and Currency of Index should be same? 2. If Indices are not available in particular country, bidder is allowed to provide any other indices even though country of origin is different? "	It shall be as per bidding documents.
200	Contract Agreement Appendix 1	"Clause 12.3 of GCC referred Appendix 1 for interest rate on delayed payment by Employer. However, same is missing in Appendix 1. Kndly add as proposed."	As per the bid requirement.
201		"Please add the clause as below: In case of delay in testing and commissioning & issuance of Operational Acceptance certificate by Employer beyond six (6) months from the date of receipt of equipment at site, the last 5% of of CIP/ pro rata EXW amount of respective supplied items shall be paid based on Post Landing Inspection (PLI) Report .	It shall be as per bidding documents.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
		If the Commissioning does not take place for more than 2 months from the date of Precommissioning then obligation of Contractor is over in this regard without ant further extension and respective bank guarantees shall be released along with commencement of Defect liability period & release of 5% retention amount."	
202	SCC PC 15.2	The copyright in all drawings, documents and other materials containing data and information regarding towers and poles furnished to the Employer by the Contractor herein shall remain vested in the Employer or, if they are furnished to the Employer directly or through the Contractor by any third party, including suppliers of materials, the copyright in such materials shall also be vested in Employer. We understand that this clause is limited to towers and poles otherwise cl 15.2 of GCC shall prevail. Please confirm? If yes please change the Replacement of cl 15.2 in PCC to Additional clause	As per the bid requirement.
203	SCC PC 20.3.2 "Second para - Second para of Sub-clause GC 20.3.2 stands deleted."	"Request to delete SCC clause GCC clause to prevail. In case deletion not allowed, we request for provision for cost & time compensation due to delay in drawing approval by Employer "	It shall be as per bidding documents.
204	GCC Cl 21.4	The Contractor shall, at its own expense.....In the event of delays in customs clearance that are not the fault of the Contractor, the Contractor shall be entitled to an extension in the Time for Completion, pursuant to GC Clause 40 " Please modify the clause as below: The Contractor shall, at its own expense.....In the event of delays in customs clearance that are not the fault of the Contractor, the Contractor shall be entitled to an extension in the	It shall be as per bidding documents.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
		Time for Completion and additional cost, pursuant to GC Clause 40"	
205	GCC Cl 22.5.2	"Please add the following: Any such instruction or written request by Employer shall constitute a Variation if and to the extent that it causes the Contractor to incur Cost in an amount which was not reasonably foreseeable by an experienced contractor by the date for submission of the Tender. Services for these personnel and other contractors may include the use of Contractor's Equipment, Temporary Works or access arrangements which are the responsibility of the Contractor. The Contractor shall be responsible for his construction activities on the Site. and shall co-ordinate his own activities with those of other contractors to the extent (if any) specified in the Employer's Requirements. If. under the Contract, the Employer is required to give to the Contractor possession of any foundation, structure, plant or means of access in accordance with Contractor's Documents, the Contractor shall submit such documents to the Employer in the time and manner stated in the Employer's Requirements. "	It shall be as per bidding documents.
206	SCC PC 22.9	fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction. Please modify the clause as below: fully reinstate pathways, other local infrastructure~~, and agricultural land~~ to at least their pre-project condition upon the completion of construction.	It shall be as per bidding documents.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
207	SCC PC 23.2	"The Contractor is responsible for bearing the costs for the above-mentioned factory acceptance tests for 2 (two) Employer's Engineers in each visit, considering visa fees and health insurance to cover all medical costs that may be required during the visits, return economy-class air fare, hotel charges, travelling expenses from airport to hotel and hotel to place of testing and return, together with a per diem allowance of US$ 100 for at least 12 (twelve) days excluding travelling time, for each visit and for each of the Employer's Engineers. All costs for the above visits are deemed to be included in the Contract Price." Request to delete the clause	It shall be as per bidding documents.
208	SCC 24.8	24.9 Upon the completion of construction, the Contractor shall fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition as recorded by the Contractor in consonance with its obligation in Clause 21.1. "Request to modify the clause as below: 24.9 Upon the completion of construction, the Contractor shall fully reinstate pathways, other local infrastructure, ~~and agricultural land to at least their pre-project condition~~ as recorded by the Contractor in consonance with its obligation in Clause 21.1."	It shall be as per bidding documents.
209	SCC Cl 24.8	"Request to add as below: In the event Precommissioning/Commissioning of the facilities (or any part thereof) is delayed for more than 30 days from the date of Contractor notified Employer for readiness of Precommissioning/ Commissioing for the reasons not attributable to Contractor or due to Employer unable to fulfil its responsibilities as per sub-clause 10.5 (Employer's responsibilities), Precommissioning/Commissioning shall be deemed completed for all contractual purposes. "	It shall be as per bidding documents.

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210	SCC Cl 25.2	The Employer shall deploy the operating and maintenance personnel pursuant to GC Sub-clause 10.5 and the Contractor shall provide all materials and support services pursuant to GC Sub-clause 9.9 as required for Commissioning. Request to modify as below: The Employer shall deploy the operating and maintenance personnel & availability of Power lines at rated voltage pursuant to GC Sub-clause 10.5 and the Contractor shall provide all materials and support services pursuant to GC Sub-clause 9.9 as required for Commissioning.	It shall be as per bidding documents.
211	SCC Cl 26.2	"The applicable rate for liquidated damages is 0.5% of the contract price per week. The maximum deduction for liquidated damages is 10% of the contract price." "Request to modify the clause as below: The applicable rate for liquidated damages is 0.5% of the delayed portion of contract price per week. The maximum deduction for liquidated damages is 10% of the contract price. application of LD as sole and exclusive remedy due to Contractor delays or due to non performance. The principle of ""No harm no foul"" shall apply"	It shall be as per bidding documents.
212	GCC Cl 27.2	27.2 The Defect Liability Period in respect of the Facilities (or, where Operational Acceptance of any part of the Facilities occurs, of such part) shall commence upon the date of Operational Acceptance and expire twelve (12) months thereafter. "Request to modify the clause as below:	It shall be as per bidding documents.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
		27.2 The Defect Liability Period in respect of the Facilities (or, where Operational Acceptance of any part of the Facilities occurs, of such part) shall commence upon the date of Completion of the Facilities and shall expire 14 months from the date of Completion or 12 months from the date of Operational Acceptance, whichever is earlier. "	
213	GCC Cl 27.8	"If the Facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part cannot be used by the Employer because of any of the aforesaid reasons." "Request to modify the clause as below: If the Facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part cannot be used by the Employer because of any of the aforesaid reasons. However, in no event shall the Defect Liability Period extend beyond twenty-four (24) months after the date of respective Supply of the Plant or the relevant part thereof."	It shall be as per bidding documents.
214	GCC Cl 39.2.7	"If the Employer and the Contractor cannot reach agreement on the price for the Change, an equitable adjustment to the Time for Completion, or any other matters identified in the Change Proposal, the Employer may nevertheless instruct the Contractor to proceed with the Change by issue of a "Pending Agreement Change Order." Upon receipt of a Pending Agreement Change Order, the	It shall be as per bidding documents.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
		Contractor shall immediately proceed with effecting the Changes covered by such Order. The parties shall thereafter attempt to reach agreement on the outstanding issues under the Change Proposal. If the parties cannot reach agreement within sixty (60) days from the date of issue of the Pending Agreement Change Order, then the matter may be referred to the Dispute Board in accordance with the provisions of GCC Sub-Clause 45.3." We request to delete this clause.	
215	GCC Cl 40.1	The Time(s) for Completion specified in the PC 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: "Request to modify the clause as below: The Time(s) for Completion specified in the PC shall be extended and additional impact on Contract Price will be amended 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:"	It shall be as per bidding documents.
216	GCC Cl 40.1	The Time(s) for Completion specified in the PC 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: "Request to add the clause as below with regards to existing facilities:	It shall be as per bidding documents.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
		Employer should indemnify Contractor for any loss on terms of time and additional cost incurred / arises out due to reasons attributable to existing facilities."	
217	Section VI – Bidding Forms, Schedule T6: Plant, 2. Type test requirement major plant/equipment	"Following type test certificates of the equipment of similar or higher specifications (voltage & capacity) required by the bid shall be submitted as per relevant IEC and shall be from any independent testing laboratory except Power transformer, GIS, circuit breaker and Lightning Arrester. Type test certificates of Power Transformer, GIS, Circuit breaker and Lightning Arrester shall be issued by any one of the independent testing laboratories listed below 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 the below listed independent testing laboratories. Short listed independent testing laboratories: - 1. KEMA Laboratories - DNV GL – Netherlands/USA 2. CESI – Italy 3. PEHLA Laboratory– Germany 4. CERDA– France 5. Powertech Laboratories Inc. – USA 6. Hitachi Ltd., High Voltage & High Power Testing Laboratory – Japan 7. Toshiba Corp. Hamakawasaki High Voltage and High Power Testing Laboratory – Japan 8. KERI – Korea	Please refer to **Addendum-1**.

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
		(i) Power Transformer (230kV & 132kV) (a) Temperature rise test. (b) Dielectric tests (Induced over voltage test, Lightning impulse voltage withstand test, Separate source voltage withstand test). (c) Short circuit withstand test (special test) *. * short circuit test certificates/reports shall be of minimum 220kV, 225MVA three phase inter bus Power Transformer." "We have the Short Circuit test conducted at KEMA Netherlands. However, KEMA never witness the Type test at manufacturer's place and this is witnessed by the end client. We have NABL accredited Laboratory. In case this clause is written 'as is', this will be unfair to manufacturers which have conducted short circuit test at KEMA, but just they haven't have Type test witnessed by KEMA, they dont qualify. Hence, we wish to propose as follow to be added: If bidder/ manufacturer has conducted Short Circuit Test (Special Test) at below listed independent test laboratories except type tests as per relevant IEC Standard 60076 than bidder has to submit undertaking letter along with bid to carry out the type tests as listed below or as per relevant IEC standard 60076 on 132 kV Power Transformer in bidder/ manufacturer's own testing NABL accredited test laboratory and must be witnessed and certified by a representative from the below listed independent testing laboratories and authorized PGCB representative without any extra cost to the Employer. Short listed independent testing laboratories (We have added CPRI as well as this being a STL Lab)	

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification
		1. KEMA Laboratories - DNV GL – Netherlands/USA 2. CESI – Italy 3. PEHLA Laboratory– Germany 4. CERDA– France 5. Powertech Laboratories Inc. – USA 6. Hitachi Ltd., High Voltage & High Power Testing Laboratory – Japan 7. Toshiba Corp. Hamakawasaki High Voltage and High Power Testing Laboratory – Japan 8. KERI – Korea 9. CPRI India (i) Power Transformer (230kV & 132kV and Higher kV Transformer) (a) Temperature rise test. (b) Dielectric tests (Induced over voltage test, Lightning impulse voltage withstand test, Separate source voltage withstand test). (c) Short circuit withstand test (special test) *. * short circuit test certificates/reports shall be of minimum 220kV, 225MVA three phase inter bus Power Transformer. "	
218	Volume 1, Section 3	*The bidder (as single entity or as JV member) who has more than three EPC contracts (as single entity or as JV member) under *execution or has been awarded in PGCB before bid submission date, is not eligible to participate in this Bid.* We request you to relax the clause for contractors within the employer's country and thereby encourage us to participate in the tender.	As per the tender requirement.