

POWER GRID COMPANY OF BANGLADESH LIMITED

Design, Supply, Installation, Testing & Commissioning of 230/132 kV and 132/33 kV Substations, Northern Zone, on Turnkey Basis Contract No. PGCBI/KfW/2012.66.436/NZSS

BMZ No. 2012 66 436

Transmission System Improvement Western Zone

ICB No. PGCBI/KfW/2012.66.436

Clarification No. 1

[Issued on 22 January 2017]

A pre-bid meeting was held on December 14, 2016 as per provision of ITB 7.4, Volume 1 of 3 of the Bidding Document. Clarifications to the queries received from the prospective Bidders regarding the Bidding Documents prior to and during the Pre-bid meeting and after the Pre-bid meeting are given below which will form part of the bidding document.

SL No.	Bidder's Query	PGCB's Reply
1.	"230/132 kV Substation Rajshahi Cable trench and cable tray for extension" "Volume 2, 1.2.1 Extension of the New 230/132 kV Substation Rajshahi" We would like to know whether existing cable trenches and cable trays running to control building have sufficient room for new cables for extension of five 230KV AIS bays and two transformers or bidder has to construct a complete new cable trench and cable trays for the new extension disregarding existing cable trenches and cable trays.	132kV part of Rajshahi Substation is under construction by separate contract. Bidder has to provide the Complete new cable trenches and cable trays for 230kV part of the substation.
2.	"230/132 kV Substation Rajshahi Main Earthing Grid" "Volume 2, 1.2.1 Extension of the New 230/132 kV Substation Rajshahi"	132kV part of Rajshahi Substation is under construction by separate contract Prospective Bidders are advised to consider complete new

SL No.	Bidder's Query	PGCB's Reply
	"Volume 2, 17.3 Drawings 1.1 Extension of Existing 230/132 kV Substation Rajshahi - Single Line Diagram 1.2 Extension of Existing 230/132 kV Substation Rajshahi - Substation Layout" We would like to know whether existing main earthinggrid have been installed in the new extension area or new main earthing grid has to be installed.	PGCB's Reply earthing grid for 230 kV part of substation and all necessary connections to other part of the substation within the scope of work.
3.	"230/132 kV Substation Rajshahi Control Building" "Volume 2 1.2.1 Extension of the New 230/132 kV Substation Rajshahi" "Volume 2, 17.3 Drawings 1.1 Extension of Existing 230/132 kV Substation Rajshahi - Single Line Diagram 1.2 Extension of Existing 230/132 kV Substation Rajshahi - Substation Layout" 1. 132KV AIS system is out of scope of the contract. Does the electrical equipment for the 132KV system have to be installed in the new control building? In that case, the size of control building need to be determined including those equipment. 2. The layout drawing does not show the location and size of existing control building. please advise."	1. 132kV part of RajshahiSubstation including two 132kV incomer bays for 225/300MVA transformer is under construction by separate contract including control building. 2. The Bidder can find at the provided Layout, in the right-up corner, the approximate position of the control building. Please note that, the provided drawings are only for tender purpose which may change at the time of execution.
4.	"230/132 kV Substation Rajshahi AC/DC Power" "Volume 2 1.2.1 Extension of the New 230/132 kV Substation Rajshahi" "Volume 2, 17.3 Drawings 1.1 Extension of Existing 230/132 kV Substation Rajshahi - Single Line Diagram 1.2 Extension of Existing 230/132 kV Substation Rajshahi - Substation	132kV part of RajshahiSubstation is under construction by separate contract 1. AC & DC room will be located in the control building 2. No, Bidder has to provide extension of the AC & DC system as per scope of work under this contract.

SL No.	Bidder's Query	PGCB's Reply
	Layout" "1. Kindly inform us where existing AC/DC Power supply room locate to extend for the new extension. 2. 132KV AIS system is out of scope of the contract. Does the AC/DC power supply system for 132kV system have to be provided with this contract or not required to provided them with this contract?"	
5.	"230/132 kV Substation Rajshahi Substation Automation System etc." "Volume 2 1.2.1 Extension of the New 230/132 kV Substation Rajshahi" "Volume 2, 17.3 Drawings 1.1 Extension of Existing 230/132 kV Substation Rajshahi - Single Line Diagram 1.2 Extension of Existing 230/132 kV Substation Rajshahi - Substation Layout" "1. 132KV AIS system is out of scope of the contract. Does the SAS system or other control system for 132KV system required to be provided with this contract? or not required. 2. Please inform us the maker and model for the existing substation automation/control & monitoring system to extend"	132kV part of Rajshahi Substation is under construction by separate contract 1. SAS system for 132KV part including two 132kV incomer bays of 225/300MVA transformer is not required to be provided under this contract, Bidder has to provide complete SAS for 230 kV substation which shall be incorporated with the existing SAS. 2. The existing 132kV SAS and protection will be supplied from ABB, Switzerland under separate contract.
6.	"230/132 kV Substation Rajshahi Protection relays and control systems" "Volume 2 5.1 For standardisation of operating performance, facilities and spare requirements, the protection relays and control systems, together with complete panels to be supplied under this project shall be manufactured by Siemens (Germany), ABB (Switzerland/Sweden) or Alstom (France / UK)." Please consider other well-known manufacturer such as NR, china and SEL, USA in order to have more competitiveness for protection relays	For standardization of operating performance, facilities and spare requirements, the protection relays and control systems, together with complete panels, to be supplied under this project, shall be manufactured by: ABB (Switzerland/Sweden), Alstom (France/UK) (currently known as GE), or Siemens (Germany).



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7.	"230/132 kV Substation Rajshahi Land development" "Volume 2, 1.2.1 Extension of the New 230/132 kV Substation Rajshahi" "Volume 2, 17.3 Drawings 1.1 Extension of Existing 230/132 kV Substation Rajshahi - Single Line Diagram 1.2 Extension of Existing 230/132 kV Substation Rajshahi - Substation Layout" We would like to know the quantity of back filling soil or soil survey report in order to make sure the correct quantity. During the site survey, we found that the hight of back filling is more than 2 meters. Please clarify this point.	The Bidder has to follow the Tender's requirements. The Civil design and backfilling has to consider and incorporate protection measures against flooding. The sufficient ground level height for land formation is required at the Contractor's responsibility and will be subject of Employer's approval.
8.	230/132 kV Substation Rajshahi - 132kV Lightning Arrestor Volume 2 - 1.2.1 Extension of the New 230/132 kV Substation Rajshahi 17.3 Drawings - 1.1 Extension of Existing 230/132 kV Substation Rajshahi - Single Line Diagram- 1.2 Extension of Existing 230/132 kV Substation Rajshahi - Substation Layout 1. 132KV ALS system is out of scope of the contract. Does the 132kV Lightning Arrestor required to be provided with this contract? or not required.	132kV Lightning Arresters are not required to be supplied for Rajshahi under this contract for RajshahiSS..
9.	"230/132 kV Substation Rajshahi Location of road and bay" "Volume 2 17.3 Drawings 1.1 Extension of Existing 230/132 kV Substation Rajshahi - Single Line	132kV part of RajshahiSubstation is under construction by separate contract The Layout is correct.

SL No.	Bidder's Query	PGCB's Reply
	Diagram 1.2 Extension of Existing 230/132 kV Substation Rajshahi - Substation Layout" "Between plan view in the layout and Key plan above notes are discrepancies regarding location of road and arrangement of bay. Kindly inform us which information is correct."	The Bidder has to consider all Tender drawings as preliminary and for Tender purpose only. All dimensions are preliminary and general. Not all equipment is shown. Details are not shown at all. The Selected Bidder has to provide detail design and detail calculation of complete facilities. The Selected Bidders has to provide detail drawings as well as all other documents, which will be subject of Employer's final approval.
10.	"132/33 kV Substation Bangura Cable trench and cable tray for extension" "Volume 2, 1.2.2 New 132/33 kV Substation Bangura" "Volume 2, 1.7.3 Drawings 2.1 New 132/33 kV Substation Bangura - Single Line Diagram 2.2 New 132/33 kV Substation Bangura - Substation Layout" "Single Line Diagram and Layout Drawing show that Future extension of six bays with double bus system is planned in this substation. Please advise whether cable trenches and cable trays have to be sized considering those for the future extension of six bays and double bus system."	All permanent facilities, like control building, SCADA system, AC & DC auxiliary power supply, cable trenches, etc. have to be considered for final arrangement.
11.	"132/33 kV Substation Bangura Main Earthing Grid" "Volume 2, 1.2.2 New 132/33 kV Substation Bangura" "Volume 2, 1.7.3 Drawings 2.1 New 132/33 kV Substation Bangura - Single Line Diagram 2.2 New 132/33 kV Substation Bangura - Substation Layout" "Single Line Diagram and Layout Drawing show that Future extension of six bays with double bus system is planned in this substation. Please advise whether main earthing grid have to be provided considering those for the future extension of six bays and double bus system."	Main earthinggrid for future bay extensions area are not required under this contract.
12.	"132/33 kV Substation Bangura Control Building"	All permanent facilities, like control building, SCADA system, AC

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SL No.	Bidder's Query	PGCB's Reply
	"Volume 2 1.2.2 New 132/33 kV Substation Bangura" "Volume 2, 17.3 Drawings 2.1 New 132/33 kV Substation Bangura - Single Line Diagram 2.2 New 132/33 kV Substation Bangura - Substation Layout" "Single Line Diagram and Layout Drawing show that Future extension of six bays with double bus system is planned in this substation. Please advise whether control building has to be sized considering those for the future extension of six bays and double bus system. "	&DC auxiliary power supply, cable tranches, etc. have to be considered for final arrangement.
13.	"132/33 kV Substation Bangura AC/DC Power Substation Automation System etc." "Volume 2, 1.2.2 New 132/33 kV Substation Bangura" "Volume 2, 17.3 Drawings 2.1 New 132/33 kV Substation Bangura - Single Line Diagram 2.2 New 132/33 kV Substation Bangura - Substation Layout" "Single Line Diagram and Layout Drawing show that Future extension of six bays with double bus system is planned in this substation. Please advise whether AC/DC Power, Substation Automation System etc. have to be provided considering those for the future extension of six bays and double bus system. "	AC/DC power and Substation Automation system have to be designed and installed with the provision for future extension.
14.	"132/33 kV Substation Bangura Protection relays and control systems" "Volume 2 5.1 For standardisation of operating performance, facilities and spare requirements, the protection relays and control systems, together with complete panels to be supplied under this project shall be manufactured by Siemens (Germany), ABB (Switzerland/Sweden) or Alstom (France / UK)." Please consider other well-known manufacturer such as NR, china and Sel, USA in order to have more competitiveness for protection relays	For standardization of operating performance, facilities and spare requirements, the protection relays and control systems, together with complete panels to be supplied under this project shall be manufactured by: ABB (Switzerland/Sweden), Alstom (France/UK) currently known as GE, or Siemens (Germany)

SL No.	Bidder's Query	PGCB's Reply
15.	and control systems. "132/33 kV Substation Bangura Land development" "Volume 2 1.2.1 Extension of the New 230/132 kV Substation Rajshahi" "Volume 2 17.3 Drawings 1.1 Extension of Existing 230/132 kV Substation Rajshahi - Single Line Diagram 1.2 Extension of Existing 230/132 kV Substation Rajshahi - Substation Layout" We would like to know the quantity of back filling soil or soil survey report in order to make sure the correct quantity. During the site survey, we found that the height of back filling is more than 8 meters. Please clarify this point.	The Bidder has to follow the Tender's requirements. The Civil design and backfilling has to consider and incorporate protection measures against flooding. The sufficient ground level height for land formation is required at the Contractor's responsibility and will be subject of Employer's approval.
16.	"132/33 kV Substation Miithapukur Cable trench and cable tray" "Volume 2 1.2.4 New 132/33 kV Substation Miithapukur" "Volume 2 17.3 Drawings 4.1 New 132/33 kV Substation Miithapukur - Single Line Diagram 4.2 New 132/33 kV Substation Miithapukur - Substation Layout" "Single Line Diagram and Layout Drawing show that Future extension of four bays are planned in this substation. Please advise whether cable trenches and cable trays have to be sized considering those for the future extension of four bays."	All permanent facilities, like control building, SCADA system, AC & DC auxiliary power supply, cable trenches, etc. have to be considered for final arrangement.
17.	"132/33 kV Substation Miithapukur Main Earthing Grid" "Volume 2 1.2.4 New 132/33 kV Substation Miithapukur" "Volume 2	Main earthing grid for future bay extensions area is not required under this contract to be considered for earthing system.

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SL No.	Bidder's Query	PGCB's Reply
	17.3 Drawings 4.1 New 132/33 kV Substation Miithapukur - Single Line Diagram 4.2 New 132/33 kV Substation Miithapukur - Substation Layout" "Single Line Diagram and Layout Drawing show that Future extension of four bays is planned in this substation. Please advise whether main earthing grid have to be provided considering those for the future extension of six bays and double bus system. "	
18.	"132/33 kV Substation Miithapukur Control Building" "Volume 2 1.2.4 New 132/33 kV Substation Miithapukur" "Volume 2 17.3 Drawings 4.1 New 132/33 kV Substation Miithapukur - Single Line Diagram 4.2 New 132/33 kV Substation Miithapukur - Substation Layout" "Single Line Diagram and Layout Drawing show that Future extension of four bays is planned in this substation. Please advise whether control building has to be sized considering those for the future extension of four bays."	All permanent facilities, like control building, SCADA system, AC & DC auxiliary power supply, cable trenches, etc. have to be considered for final arrangement.
19.	"132/33 kV Substation Miithapukur AC/DC Power Substation Automation System etc." "Volume 2 1.2.4 New 132/33 kV Substation Miithapukur" "Volume 2 17.3 Drawings 4.1 New 132/33 kV Substation Miithapukur - Single Line Diagram 4.2 New 132/33 kV Substation Miithapukur - Substation Layout "	AC/DC power and Substation Automation system have to be designed and installed with the provision for future extension.
	"Single Line Diagram and Layout Drawing show that Future extension of four bays is planned in this substation. Please advise whether AC/DC	

SL No.	Bidder's Query	PGCB's Reply
20.	Power Substation Automation System etc. have to be provided considering those for the future extension of four bays." "132/33 kV Substation Miithapukur Protection relays and control systems" "Volume 2 5.1 For standardisation of operating performance, facilities and spare requirements, the protection relays and control systems, together with complete panels to be supplied under this project shall be manufactured by Siemens (Germany), ABB (Switzerland/Sweden) or Alstom (France / UK)." Please consider other well-known manufacturer such as NR, china and Sel, USA in order to have more competitiveness for protection relays and control systems.	For standardization of operating performance, facilities and spare requirements, the protection relays and control systems, together with complete panels to be supplied under this project shall be manufactured by: ABB (Switzerland/Sweden), Alstom (France/UK) currently known as GE or Siemens (Germany).
21.	"132/33 kV Substation Miithapukur Land development" "Volume 2 1.2.1 Extension of the New 230/132 kV Substation Rajshahi" "Volume 2 17.3 Drawings 1.1 Extension of Existing 230/132 kV Substation Rajshahi - Single Line Diagram 1.2 Extension of Existing 230/132 kV Substation Rajshahi - Substation Layout" We would like to know the quantity of back filling soil or soil survey report in order to make sure the correct quantity. During the site survey, we found that the hight of back filling is more than 4 meters. Please clarify this point.	The Bidder has to follow the Tender's requirements. The Civil design and backfilling has to consider and incorporate protection measures against flooding. The sufficient ground level height for land formation is required at the Contractor's responsibility and will be subject of Employer's approval.
Joint Venture Agreement		



SL No.	Bidder's Query	PGCB's Reply
22.	Clause 2 Supplies and Service The partners of the joint venture shall be jointly and severally responsible for successful execution of the aforesaid Project of PGCB. We submit that each partner shall be severally liable for their portion of scope of works against PGCB. As per clause 3 each partner shall be responsible for their scope, therefore any liability arising for default by one partner shall be remain with defaulting partner only. Please confirm.	No, this is not possible. The Bidder has to follow the Tender's requirements. The Bidder, no matter are they single Bidder or JV, has the same obligation and responsibility. Please refer to the ITB clause no 4.1(a) and clause no. 3.5 of JV form.
23.	Clause 7 Liability and warranty For delay – the partner in delay shall be responsible for Liquidated damages. However PGCB will have right to hold the other partner responsible also. "The partner delaying the project shall be responsible for liquidated damages to PGCB, but PGCB may hold other partner also responsible. For third party claims, the partner causing such event giving rise to claim shall only be responsible. Please confirm whether PGCB be also counted as third party for purpose of this clause 7.2. Further as per JV agreement, each party shall be responsible for damages caused to other partner, wilfully or negligently. Please confirm.	No, this is not possible. The Bidder has to follow the Tender's requirement.

Section I – Instructions to Bidder

SL No.	Bidder's Query	PGCB's Reply
24.	Clause 45, page 21 Performance security Within twenty-eight (28) days of the receipt of notification of award from the Employer, the successful Bidder shall furnish the performance security in accordance with the conditions of contract. Please specify if in case of JV, bid security will be submitted by both parties or lead partner. If by both partners, in what ratio?	The bidder shall submit only one bid security covering 100% bid security amount irrespective of the bidder participating as single entity or JV. The security shall be denominated in the currency or currencies of the Contract, or in a freely convertible currency acceptable to the Employer, and shall be in one of the forms of bank guarantees provided in the bidding documents, as stipulated by the Employer in the SCC, or in another form acceptable to the Employer. The amount of performance security shall be 10% of the contract price.
Section VII- General Conditions of Contract		
25.	Clause 9.1, page 153 Contractor's responsibility The Contractor shall design, manufacture including associated purchases and/or subcontracting, install and complete the Facilities in accordance with the Contract. When completed, the Facilities should confirm to the specifications be fit for the purposes for which they are intended as defined in the Contract "The warranty shall be limited to delivery of facility as per specifications. Intended use is not defined. Except for warranties expressly provided in contract, all other implied warranties are disclaimed including merchantability. Please confirm.	No. The Bidder has to follow the Tender's requirements.
26.	Clause 16.5, page 158 Confidential Information The provisions of this GC Clause 16 shall survive termination, for whatever reason, of the Contract. "No mention of confidentiality period. In absence of which, the obligation shall survive for a definite period of 2 years. Please confirm.	No. The Bidder has to follow the Tender's requirements.
27.	Clause 23, page 170	No.

SL No.	Bidder's Query	PGCB's Reply
	Test and Inspection The employer and project manager or their designated representatives shall be entitled to attend the aforesaid test and/or inspection, provided that the Employer shall bear all costs and expenses incurred in connection with such attendance including, but not limited to, all travelling and board and lodging expenses. "Please confirm whether Employer bear all expenses for travelling and board and lodging expenses during testing and inspection.	PGCB's Reply The Bidder has to follow the Tender's requirements The potential Bidder has to read complete Tender documents including SCC, etc.
28. 7	Clause 26, page 176 Completion time Guarantee Liquidated damages under this clause shall be sole remedy and in full satisfaction of damages caused due to delay by contractor, without any further liability on contractor to pay compensation or additional cost under termination clause. Further we understand that for JV, the partner causing delay shall be responsible for LD. Please confirm.	No. The Bidder has to follow the Tender's requirements
29.	Clause 27 page 176 Defect Liability the Employer may, following notice to the Contractor, proceed to do such work, and the reasonable costs incurred by the Employer in connection therewith shall be paid to the Employer by the Contractor or may be deducted by the Employer from any monies due the Contractor- Employer shall submit the documents evidencing costs incurred towards such repair/replacement prior to deducting any monies due to Contractor.	The Bidder has to follow the Tender's requirements

SL No.	Bidder's Query	PGCB's Reply
	"This clause 27 provides the exclusive remedies for all claims based on failure of or defect in Products or Services, regardless of when the failure or defect arises, and whether a claim, however described, is based on contract, warranty, indemnity, tort/extra-contractual liability (including negligence), strict liability or otherwise. Please confirm.	
30.	Clause 30, page 180 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. (b) the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed a multiple of the Contract Price specified in the SCC or, if a multiple is not so specified, the total Contract Price, provided that this limitation shall not apply any obligation of the Contractor to indemnify the Employer with respect to patent infringement. "The cost of repair and replacement of defective equipment shall also have cap of 100%. The term Wilful Misconduct is not defined in the contract. We propose following definition: Wilful Misconduct means, on the part of a Party's managerial or senior supervisory personnel (does not include foreman, engineer, inspector, technical advisor, site manager, first level of managerial or supervisory level), an intentional and wrongful act, or an intentional and wrongful omission of some act, in either case with the intent to inflict damage or	The Bidder has to follow the Tender's requirements.

 

SL No.	Bidder's Query	PGCB's Reply
31.	Clause 33 Loss of or Damage to property; accident or injury to workers 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 understand that each partner will be severally liable under this clause for indemnity. Please confirm.	No. The Bidder has to follow the Tender's requirements.
32.	Clause 33.3, page 182 Loss of or Damage to Property; Accident or Injury to Workers; Indemnification The Employer shall indemnify and hold harmless the Contractor and its employees, officers and Subcontractors from any liability for loss of or damage to property of the Employer, other than the Facilities not yet taken over, that is caused by fire, explosion or any other perils, in provided that such fire, explosion or other perils were not caused by any act or failure of the Contractor. Employer shall indemnify the Contractor completely under this clause no matter any claim is pending before Insurance company. Please amend.	Your proposal is not acceptable. The Bidder has to follow the Tender's requirements.

SL No.	Bidder's Query	PGCB's Reply
33.	NEW CLAUSES TO BE ADDED 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 under 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.	Your proposal is not acceptable The Bidder has to follow the Tender's requirements.
34.	NEW CLAUSES TO BE ADDED 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 the 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, Contractors and subcontracts) disclaims all liability for any nuclear or other damage, injury or contamination.	Your proposal is not acceptable The Bidder has to follow the Tender's requirements.
35.	Manufacturers/Subcontractors Clause-2.7 (Section – III, Page: III-13, 14 1. Minimum Criteria of manufacturing experience for Power	1. No. The Bidder has to follow the Tender's requirements. 2. No. The Bidder has to follow the Tender's requirements. Please refer to Addendum-1




SL No.	Bidder's Query	PGCB's Reply
	Transformer experience is requested for the voltage rating of 220/110 KV or higher rating. Whereas in this tender Power Transformer and Auto Transformer is required for 132/33 KV and 230/132 KV. 2. Minimum Criteria of manufacturing experience for Circuit Breaker, Disconnect Switch, Instrument Transformer and Surge Arrester for the voltage rating of 220 KV or higher. Whereas Circuit Breaker, Disconnect Switch, Instrument Transformer and Surge Arrester are required for different voltage level 230 KV, 132 KV and 33 KV Query: We believe that manufacturing experience and proof of satisfactory performance are required to examine the manufacturer's capability of production of required product. If so: 1. As required transformer voltage level is 132/33 KV and 230/132/33 KV, we request you to amend the requirement of Manufacturing Experience (Supply Record) & Satisfactory Performance Certificate of 132/33 KV or higher voltage level for 132/33 KV 50/75 MVA Power Transformer and Manufacturing Experience (Supply Record) & Satisfactory Performance Certificate of 230/132/33 KV or higher voltage level for 230/132/33 KV 225/300 MVA Auto Transformer. 2. As required voltage level of Circuit Breaker, Disconnect Switch, Instrument Transformer and Surge Arrester are 230 KV, 132 KV and 33 KV; we request you to amend the requirement of Manufacturing Experience (Supply Record) & Satisfactory Performance Certificate for required/offered items	




SL No.	Bidder's Query voltage level.	PGCB's Reply
36.	Test Report Clause 2.7 (Section – III, Page III-13) & Clause – 1.2.5 (Section – VI, Page VI-4) Clause 2.7 (Section – III, Page III-13) For Power Transformer • Routine Test Reports for Similar Power Transformers, three-phase, with on-load tap changer and minimum rating 220/110 KV, 150 MVA • Short Circuit Withstand Tests for similar power transformers or calculation for 230/132 KV, 300 MVA Auto Transformer Clause – 1.2.5 (Section – VI, Page VI-4) Type Test Report For Power Transformer • Temperature Rise Test • Dielectric Tests • Short Circuit Withstand Test Query: 1. Kindly confirm we need to submit both type test report and routine test report of mentioned capacity along with bid submission. 2. As per section III, We need to submit Short Circuit Test or Calculation. From Section VI, this requirement is not clear to us. We understand that either we need to submit short circuit	The Bidder has to follow the Tender's requirements. EQC under. The EQC clause 2.7 has been revised please refer to Addendum - 1.




SL No.	Bidder's Query	PGCB's Reply
	withstands test or short circuit calculation for required or higher voltage and/or higher capacity transformer. Kindly clarify over our understanding.	
37.	Section 4: Power Transformer Clause 4.13 (4.13.1, 4.13.2, 4.13.3) Page 135 of Vol.2 Query: We understand from these clauses that (we) need to supply Oil Treatment Plant and Oil Storage Tank along with Power Transformer and Auto Transformer following specification mentioned under clause 4.13. If so price of these items will be quoted as "Necessary material and equipment to complete Transformers" stated in price schedule. Kindly clarify over our understandings.	Yes, your understanding is correct. One set of equipment has to be provided at each substation where transformer has to be supplied.
38.	Section 5: Protection, Control and Metering Clause 5.1 Page 141 of Vol. 2 For standardization of operating performance, facilities and spare requirements, the protection relays and control system, together with complete panels, to be supplied under this project shall be from Siemens (Germany), ABB (Switzerland) and Alstom (France/UK) Query: We understand that all Protection Relay Manufacturers need to comply with the technical qualification mentioned in clause 2.7 of volume 1. We request you to consider Schneider (France) as manufacturer of Protection Relay and Control System as they have experience of supplying same system to PGCB earlier.	For standardization of operating performance, facilities and spare requirements, the protection relays and control systems, together with complete panels to be supplied under this project shall be manufactured by: ABB (Switzerland/Sweden), Alstom (France/UK) currently known as GE, or Siemens (Germany).

SL No.	Bidder's Query	PGCB's Reply
39.	Schedule A 1.2.1: Item 1B4 1.2.2: Item 1B4 1.2.4: Item 1B4 ...145 KV, 130/√3/110/√3/110/√3.. Query: We Understand it should be "145 KV, 132/√3/110/√3/110/√3" Kindly confirm over our understanding.	Yes, your understanding is correct. Please refer to Addendum - 1
40.	Conflict of Interest Section- I: ITB 4.3 Section-III: Criteria 2.1.2 Query: We understand that any company who intend to participate itself/subsidy of intended bidder/mother company of intended bidder can offer for its manufactured items to other bidders. Kindly clarify over our understandings.	We don't understand your question. We can confirm following: 1. One Bidder can participate in only one Bid as single entity or member of JV. 2. Manufacturer can participate on more than one Bid. 3. If "Mother company" is also manufacturer of some equipment, "Mother company" itself or subsidiary can participate as a Bidder in only one Bid, but as Manufacturer can participate in other(s) Bid(s).
41.	Jhenaidah 230/132 KV AIS Substation The construction of Jhenaidah 230/132 KV Substation is split into two separate projects. Construction of New 230/132 KV Substation will be done at Contract No. PGCB/KfW/2012.66.436/WZSS. Whereas for same substation 2 Nos. 132 KV Bay extension will be done at Contract No. PGCB/KfW/2012.66.436/SS. Query: We understand that these two projects will run simultaneously. It is not confirmed whether the contractor for Extension Job will get sufficient time to complete their portion of job after the job completion of new substation contractor. Moreover, if two contractors work separately	The Bidder has to follow the Tender's requirements. The Employer is aware of the situation and Employer will take care about the issue during the construction period.

SL No.	Bidder's Query	PGCB's Reply
	in a same place at same time; chance of chaos will be higher and so both contractors will face problem to complete their job within contractual stipulated time.	
	So we request you to consider the scope of work and construction of 2 Nos. 132 KV Bay Extension job along with Turnkey construction of New 230/132 KV Jhenaidah Substation.	
42.	Manufacturers Authorization Letter ITB 11.2 Query: Prospective bidders may participate in the form of Joint Venture or Consortium. We request you to accept the authorization letter in the name of any member of consortium. Kindly Clarify.	No. The Bidder has to follow the Tender's requirements.
43.	Extension of the New Rajshahi 230/132 KV Substation Land Development Query: At this proposed modification, land development is required to be done for approximate 10 acre. In this tender required land development is not mentioned in Cubic-Meter. The area of the proposed extension is not clearly marked. Also the land depth is not homogeneous. So we request you to give the exact quantity of land development in Cubic-Meter or Cubic-feet.	No. The Bidder has to follow the Tender's requirements. The Civil design and backfilling has to consider and has to incorporate countermeasures against flooding. The sufficient ground level height for land formation is required at the Contractor's responsibility and will be subject of Employer's approval.
44.	New Bangura 132/33 KV Substation Land Development Query: At this proposed modification, land development is required to be done for approximate 5 acre. In this tender required land development is not mentioned in Cubic-Meter. The area of the proposed extension is not clearly marked. Also the land depth is not homogeneous. So we	No. The Bidder has to follow the Tender's requirements. The Civil design and backfilling has to consider and has to incorporate countermeasures against flooding. The sufficient ground level height for land formation is required at the Contractor's responsibility and will be subject of Employer's approval.

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	request you to give the exact quantity of land development in Cubic-Meter or Cubic-feet.	
45.	Extension of the Existing 132/33 KV Substation Baghabari Scope of Work Query: The Scope of Work is mainly the re-testing and re-commissioning of existing bay. As per current condition this line bay is in operation. As the project is just in tendering stage, it is uncertain whether all the items will be running well during the implementation stage. So at that time if any new items (Circuit Breaker, Disconnect, Instrument Transformer, Surge Arrester etc) are required, will be supplied by PGCB replacing the faulty items.	Your understanding is correct
46.	New Mithapukur 132/33 KV Substation Land Development Query: At this proposed modification, land development is required to be done for approximate 5 acre. In this tender required land development is not mentioned in Cubic-Meter. The area of the proposed extension is not clearly marked. Also the land depth is not homogeneous. So we request you to give the exact quantity of land development in Cubic-Meter or Cubic-feet.	No. The Bidder has to follow the Tender's requirement The Civil design and backfilling has to consider and has to incorporate countermeasures against flooding. The sufficient ground level height for land formation is required at the Contractor's responsibility and will be subject of Employer's approval.
47.	Extension of the New Rajshahi 230/132 KV Substation Boundary Wall Query: As we understand this substation will be within common boundary of 132 KV Substation which is to be constructed under another package. Kindly clarify about the exact scope of boundary construction for this substation.	132kV part of Rajshahi Substation is under construction by separate contract Prospective bidders are advised to consider security boundary wall around the periphery of 10 acre land under this contract and internal fence around the 230 kV switchyard.




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48.	Digit Grouping and Decimal System Query: We have found in the tender document that "." is used for digit grouping and "," is used as decimal mark. Whereas in Bangladesh "," is used for digit grouping and "." is used as decimal mark. Kindly clarify which numerical system will be applied for price schedule and in other Financial Form.	PGCB's Reply Standard Bangladesh's digit grouping and decimal system will be used.
49.	IN Schedule E, we have been provided the GTP of Bay Control Unit for LV AC & DC. We understand that PGCB requires Bay control Unit upto LV Side of Transformer in previous projects. If so, kindly confirm whether Bay Control Unit for LV AC & DC is required or not. If Not, should we need to submit the respective GTP while bid submission	Yes, BCU for Auxiliary power supply is required
50.	In GTP, for protection terminal Main 2 as a manufacturer it is mentioned that it will be different than Main 1, can we consider different model/different series of the same manufacturer?	No, different manufacturer isn't different model
51.	REFERENCES IN TENDER DOCUMENTS: Invitation for Bids: "The loan agreement will cover only part of the project cost, as for the remaining portion, the Government of Bangladesh (Gob) and the Power Grid Company of Bangladesh Ltd. (PGCB) ("Employer") allocated necessary funds forwards the cost of the proposed works". REQUEST FOR CLARIFICATION: Please provide Information about the part of the project cost is covered by the loan of KfW (References A, B and C) and the part of the project cost is covered by the GoB.	As indicated in the BDS: The Government of Bangladesh received financing from the KfWEntwicklungsbank within the scope of German Financial Co-operation for financial assistance for the TransmissionSystem Strengthening in Bangladesh, toward the cost of the project. The above Loan Agreement will cover only part of the project cost. The Government of Bangladesh and Power GridCompany of Bangladesh Ltd. allocated remaining necessaryfunds towards the cost of the proposed works.
52.	REFERENCES IN TENDER DOCUMENTS:	The deadline for submission has already been extended up to

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	ITB 24.1 related to deadline for bid submission. REQUEST FOR CLARIFICATION: Request of Time Extension, according to enclosed letter.	16.02.2017.
53.	REFERENCES IN TENDER DOCUMENTS: 14. Taxes and Duties (Section VIII: Special Conditions of Contract (SCC)). Schedule B: Bid Prices & Schedule REQUEST FOR CLARIFICATION: According to 14.1., The Contractor must include Taxes and Duties in unit price and total price of the economical proposal. According to 14.2., The payment of Taxes and Duties will be done by the Employer. According to Schedule B, Prices must be quoted CIP incoterms (excluding Taxes and Duties). Please, clarify if Taxes and Duties shall be considered in the unit and total prices and if the Taxes and Duties will be paid by the Employer.	The Bidder has to follow the GCC & SCC clause 14 for details, however clarified again below: Tax deducted at source (TDS) shall have to be included in all price schedules (schedule, 1 2, 3 & 4), which will be deducted by employer at the time of payment as per Government rules of Bangladesh. Consequently all bid price shall be exclusive of VAT. For schedule-1: Custom duties and any other import related taxes/duties which will be incurred at the port of entry in Bangladesh shall be paid by the employer. For schedule-2: VAT on EXW amounts is not included in the contract price. VAT on EXW shall be paid by the Contractor and shall be reimbursed by the Employer to the Contractor on actual basis in accordance with the government rules upon submission of relevant documents in original. For schedule-3 & 4: Applicable VAT will be borne by the Employer and deposit the same to the government's exchequer.
54.	REFERENCES IN TENDER DOCUMENTS: 14. Taxes and Duties (Section VIII: Special Conditions of Contract (SCC)). Schedule B: Bid Prices & Schedule. REQUEST FOR CLARIFICATION:	Yes

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	Please, clarify if for supplies from abroad "the Consignee" will be The Employer in the <i>Bill of Lading</i> document of each supply.	
55.	REFERENCES IN TENDER DOCUMENTS: 14. Taxes and Duties (Section VIII: Special Conditions of Contract (SCC)). Schedule B: Bid Prices & Schedule. REQUEST FOR CLARIFICATION: Please confirm that VAT has not been considered in unit prices and total prices of the economical proposal.	Your understanding is correct. The Bidder has to follow the Tender's requirement.
56.	REFERENCES IN TENDER DOCUMENTS: Geotechnical studies and Soil Survey Investigations.. REQUEST FOR CLARIFICATION: Please provide information about geotechnical studies and Soil survey investigations on sites where new Substations must be done.	The geotechnical studies and soil survey investigations are in the selected Bidder's scope of work. The prospective bidders are requested to carry out their own assessment on all the concern sites according to their needs before submission of their bids.

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SL No.	Bidder's Query	PGCB's Reply
57.	REFERENCES IN TENDER DOCUMENTS: Existing Substations: Substation Gallamari 132/33 kV, Substation Gopalganj 132/33 kV, Substation Rajshahi 230/132 kV, Substation Baghabari 132/33 kV, Substation 230/132 kV Jhenaidah, Substation Gopalganj 132/33 kV, Substation Madaripur 132/33 kV, Substation Mongla 132/33 kV and Substation Bagherhat 132/33 kV REQUEST FOR CLARIFICATION: Please provide the technical specification and the manufacturer of the main equipment installed in these existing Substations (to be considered suitable equipment for the extension), mainly: - Power Transformers. - Circuit Breakers. - Disconnectors. - Measurement (Current and Voltage) Transformers. - Surge Arresters. - Protection Relays. - Substation Automation System. Communication Equipment and System.	Prospective Bidders are advised to conduct site visits and inform themselves. The Employer may arrange necessary permissions, if requested by the Bidders.
58.	Volume 2, Technical Specification, Clause 12.1.1, Scope of Work We understand that maintenance of civil works is not in bidder scope. Please confirm.	The question is not clear. Scope of work shall be as per the tender requirement.
59.	Volume 2, Technical Specification, Clause 12.3.2, Ground Conditions, Foundations and Site Investigation We understand that Regardless of the result of soil investigation report,	Your understanding is partly correct. Foundations will be defined according to the Soil investigation report, but the Bidder has to assume piled foundations as




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	the foundations of main control building, gantry tower/column and transformers shall be provided with piles and other foundations such as boundary wall, outdoor equipment etc. shall be decided based on the soil investigation report. Please review and confirm.	PGCB's Reply preferable. Final solution has to be defined during design stage The Selected Bidder has to provide detail design and detail calculation of complete facilities The Selected Bidders has to provide detail drawings as well as all other documents, which will be subject of Employer's final approval.
60.	Volume 2, Technical Specification, Clause 12.3.2 (e), Foundations We understand that all internal and external walls shall be non load bearing walls supported over the beams at floor level hence strip footings below walls can be avoided without compromising on structural integrity/strength of the structure. Please review and confirm.	Your understanding is not correct. Prospective Bidders have to follow the Tender's requirement.
61.	Volume 2, Technical Specification, Clause 12.3.3, Drainage Please provide the list of sites where rain water needs to be collected in underground tanks.	The Bidder has to follow the Tender's requirement. Details like underground tanks have to be defined by detail design and they will be subject of Employer's approval Bidders are advised to conduct site visits and inform themselves. The Employer may arrange necessary permissions, if requested by the Bidders.
62.	Volume 2, Technical Specification, Clause 12.3.27, Concrete Reinforcement We understand that High yield steel bars (460MPa/415MPa) shall be used for reinforcing structural concrete. Kindly confirm.	The Bidder has to follow the Tender's requirement. It shall be defined upon detail engineering during execution subject to approval from PGCB.
Extension of NEW 230/132 kV Substation Rajshahi		
63.	Volume-2, Technical Specification, Chapter 17, Bid Drawings Existing earthmat layout, grid spacing and earthing riser used in	132kV part of Rajshahi Substation is under construction by separate contract. Bidder has to provide the complete new earthing grid for 230 kV

SL No.	Bidder's Query	PGCB's Reply
	existing substation is not provided, kindly provide the above information for existing Substation Area.	part of substation (shown on the drawing) and all necessary connections to other part of the substation The Bidder has to consider all Tender drawings as preliminary and for Tender purpose only. All dimensions are preliminary and general. Not all equipment is shown. Details are not shown at all. The Selected Bidder has to provide detail design and detail calculation of complete facilities The Selected Bidders has to provide detail drawings as well as all other documents, which will be subject of Employer's final approval
64.	Volume-2, Technical Specification, General, LVAC and DC SLD We understand that in the existing ACDB/DCDB sufficient feeders are available for bays of 220kV extension substation. Please confirm.	No, Bidder has to provide extension of the AC & DC system
65.	Volume-2, Technical Specification, General, LVAC and DC SLD We presume that the existing battery and charger has the sufficient battery capacity to take care of bays of 220kV extension substation. Please confirm.	Yes, your understanding is correct. However, the contractor may need to confirm this during detail engineering at the execution stage. The existing battery capacity is 460Ah.
66.	Volume-2, Technical Specification, General, LVAC and DC SLD Please provide the Existing LVAC & DCDB Approved Scheme alongwith the availability of spare feeder/ vacant module.	132kV part of RajshahiSubstation is under construction by separate contract. hence, information can't be provided in the moment. The Employer will provide information to selected Bidder . Prospective bidders are advised to follow the requirement of the tender document.
67.	Volume-2, Technical Specification, General, Existing cable trench layout Please provide the existing outdoor & Indoor cable trench layout along with space availability for cable Laying in Existing Cable Trenches.	132kV part of RajshahiSubstation is under construction by separate contract. Hence information can't be provided at this moment. The Employer will provide information to selected Bidder The Bidder has to provide the complete new cable trenches and

SL No.	Bidder's Query	PGCB's Reply
		cable trays for required 230 kV Switchyard Final layout of the existing cable trenches is not available at this moment. Prospective bidders are advised to consider new cable trenches for 230kV portion.
68.	Volume-2, Technical Specification, Clause 17.2, List of Bid Drawings, Sr. No. 1.1, Drawing No. NZSS/1.2 As per our understanding, the scope for 220kV transformer bay is limited upto HV side of transformer connection. LV side connection with transformer and required Gantry, conductor and its associated Hardware, Insulator for interconnection of 220kv & 132kV is not in present scope of work. Kindly confirm.	132kV bay equipment installation including control protection of 132kV incomers bays are under construction in separate contract. However 132kV side overhead connection from 300MVA transformer bushing to 132kV gantry or 132kV bay equipment which is applicable shall be under scope of this contract. Integration with all sorts of secondary connection of 132kV bay equipment for commissioning including control & protection shall also be under scope of this contract.
69.	Volume-2, Technical Specification, General, Existing control room Layout Kindly provide Existing control room layout & its location in overall layout along with panel arrangement drawings for space availability of new 220kV Control and Protection panels.	132kV part of Rajshahi Substation is under construction by separate contract Final layout of the control room is not available at this moment but adequate space will be available to accommodate 230kV Control and Protection panels.
70.	Volume-2, Technical Specification, General Please confirm the land acquisition status intend to use for substation area under present scope of work	Required land is under PGCB's possession.
71.	Volume-2, Technical Specification, General, Lightning protection As per our understanding, No LM is required for lightning protection and same to be done by shield wire protection according to IEEE standard. Kindly confirm.	As per the tender requirement.
72.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification, Extension of the New 230/132 kV Substation Rajshahin order to design the system, we request you to please confirm the distance between new proposed 230/132kV Rajshahi Substation & HVDC Bheramara.	Approximately 80 km

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73.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification Please confirm that 230/132kV Rajshahi Substation would be SAS based and no RTU is required under present scope of work.	Your understanding is correct.
74.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification Please confirm that there would be double circuit line between new proposed 230/132kV Rajshahi Substation & HVDC Bheramara.	Your understanding is correct.
75.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification Please confirm the other end Telecommunication Scope i.e HVDC Bheramara end is covered under present scope.	Your understanding is correct.
76.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification We understand that other end i.e HVDC Bheramara end is SAS based and extension of 2 Bay from new proposed 230/132kV Rajshahi Substation is not covered under present scope.	No. Other ends have to be covered from tele-communication point of view
77.	BGD-1800-NZSS-Volume-3, 5.2.1.6A 3.1: Current Transformers 230kV, 3200-1600/1A/A In BPS, 245kV, 50kA, 50Hz, 1050/460kV BIL, single phase, 5- cores, 5/15/30/30/30VA, head type, post type current transformer is used; whereas 5.2.1.6A3.1: Current Transformers 230kV, 3200-1600/1A/A reflects rated power 10/15/30/30/30VA for cores. Kindly clarify actual requirement.	The rated power of the first core shall be 10VA. Please refer to Addendum – 1 for the corrected pages of the price schedule.
78.	Volume-3, Schedule E: Technical Particulars and Guarantees, 5.2.4.2 D2: 132/33kV 50/75 MVA Power transformer: Sr. No. 2.3 of GTP :The voltage rating of 50/75 MVA transformer mentioned in Price Schedule III. D2 is 132/33KV, but in the GTP of 50/75MVA transformer, it is mentioned 135/34.5 KV. Request you to confirm the final voltage rating.	Rated voltage is: 132 ±10 x 1.25 % / 34.5 kV/kV
79.	Volume-3, Schedule E: Technical Particulars and Guarantees, 5.2.4.2 D2: 132/33kV 50/75 MVA Power transformer: Sr. No. 3.1.1 of GTP	Your understanding is correct.

SL No.	Bidder's Query	PGCB's Reply
	:Weunderstand that SC impedance is to be worked out on the basis of rated power 75 MVA instead of 300MVA with on load tap changer in middle position. Please confirm.	
Extension of Existing 132/33 kV Substation Baghabari		
80.	Volume-2, Technical Specification, Chapter 17, Bid DrawingsExistingearthmat layout, grid spacing and earthing riser used in existing substation is not provided; kindly provide the above information for existing Substation Area.	Information can't be provided in the moment. The Employer will provide information to selected Bidder. Bidders are advised to conduct site visits and inform themselves. The Employer may arrange necessary permissions, if requested by the Bidders.
81.	Volume-2, Technical Specification, General, Conductor Type Kindly confirm the Type of conductor to be used for present scope of work.	Prospective Bidders are advised to conduct site visits for detail assessment. Necessary permissions will be arranged by PGCB upon request.
82.	Volume-2, Technical Specification, General, LVAC and DC SLDPlease provide the Existing LVAC & DCDB Approved Scheme along with the availability of spare feeder/ vacant module.	Prospective Bidders are advised to conduct site visits for detail assessment. Necessary permissions will be arranged by PGCB upon request.
83.	Volume-2, Technical Specification, General, Existing cable trench layout Please provide the existing outdoor & Indoor cable trench layout along with space availability for cable Laying in Existing Cable Trenches.	Prospective Bidders are advised to conduct site visits for detail assessment. Necessary permissions will be arranged by PGCB upon request.
84.	Volume-2, Technical Specification, General, Existing layoutPlease provide the existing layout plan & section of Substation.	Prospective Bidders are advised to conduct site visits for detail assessment. Necessary permissions will be arranged by PGCB upon request.
New 132/33 kV Substation Bangura		
85.	General, Soil Investigation ReportPlease provide the Soil Resistivity Report of acquired land of substation Area	The geotechnical studies and soil survey investigations is in the selected Bidder's scope of work. The prospective bidders are requested to carry out their own

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		assessment on all the concern sites according to their needs before submission of their bids.
86.	Volume-2, Technical Specification, General Please confirm the land acquisition status intend to use for substation area under present scope of work	Required land is under PGCB's possession.
87.	Volume-2, Technical Specification, General We assume that 132 & 33 kV line side stringing Hardware/conductor/ Shield wire are considered as part of transmission line scope. Please confirm.	Your understanding is correct.
88.	Volume-2, Technical Specification, 48V DC system & Battery, Doc No.- PGCB/KfW/2012.66.436/SSNZ/7.1 Doc. Title- SINGL LINE DIAGRAM FOR 110V & 48V DC DISTRIBUTION & Bid price schedule As per General SLD, DC/DC converter DC 110V / 48V 1500VA is considered, whereas BPS Reflects 48V DC system with 2 sets of 250Ah battery is required. Kindly clarify actual requirement.	One (1) lot consists of two (2) sets of 48V DC system complete with chargers and distribution switchboard shall be designed, supplied, delivered, installed, tested and commissioned in the control building to provide all DC supplies for fibre optic multiplex equipment for communication and protection, for all new substations respectively. Please refer to Addendum-1 for the corrected drawing.
89.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification, New 132/33kV Substation Bangura In order to design the system, we request you to please confirm the distance between new proposed 132/33kV Bangura Substation & existing Baghabari Substation	Approximately 25 km
90.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification, New 132/33kV Substation Bangura Please confirm that new proposed 132/33kV Bangura Substation would be SAS based and no RTU is required under present scope of work.	Your understanding is correct.
91.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification, New 132/33kV Substation Bangura Please confirm that there would be Single circuit line between new proposed 132/33kV Bangura Substation & existing Baghabari Substation.	132 kV Single Circuit Transmission Line on Double Circuit Towers Baghabari - Bangura Approximately 25 km of 132 kV single circuit transmission line on double circuit towers from the existing 132/33 kV Substation Baghabari to the new 132/33 kV Substation Bangura.

SL No.	Bidder's Query	PGCB's Reply
92.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification, New 132/33kV Substation Bangura We understand that other end i.e existing Baghabari Substation is RTU based and extension of 1 Bay from new proposed 132/33kV Bangura Substation is covered under present scope.	Yes Other ends have to be covered from tele-communication point of view
93.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification, New 132/33kV Substation Bangura Please confirm the other end Telecommunication equipment i.e existing Baghabari Substation end is covered under present scope.	Yes Other ends have to be covered from tele-communication point of view
New 132/33 kV Substation Miithapukur		
94.	Volume-2, Technical Specification, General Please confirm the land acquisition status intend to use for substation area under present scope of work.	Required land is under PGCB's possession.
95.	Volume-2, Technical Specification, General We assume that 132 & 33 kV line side stringing Hardware/conductor/Shield wire are considered as part of transmission line scope. Please confirm.	Your understanding is correct.
96.	General, Soil Investigation Report Please provide the Soil Resistivity Report of acquired land of substation Area.	The geotechnical studies and soil survey investigations, soil resistivity test is in the selected Bidder's scope of work. The prospective bidders are requested to carry out their own assessment on all the concern sites according to their needs before submission of their bids.
97.	Volume-2, Technical Specification, 48V DC system & Battery, Doc No.-PGCB/KMW/2012.66.436/SSNZ/7.1 Doc. Title- SINGLE LINE DIAGRAM FOR 110V & 48V DC DISTRIBUTION & Bid price schedule As per General SLD, DC/DC converter DC 110V / 48V 1500VA is considered, whereas BPS Reflects 48V DC system with 2 sets of 250Ah battery is required. Kindly clarify actual requirement.	One (1) lot consists of two (2) sets of 48V DC system complete with chargers and distribution switchboard shall be designed, supplied, delivered, installed, tested and commissioned in the control building to provide all DC supplies for fibre optic multiplexer equipment for communication and protection, for all new substations respectively. Please refer to Addendum-1 for the corrected drawing.
98.	Volume-2, Technical Specification, Scope of Work	No.

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	& Drawings forming Part of Specification Distance between RANGUR AND NEW 132/33 kV SUBSTATION MITHAPUKUR AND PALASHBARI. We understand that RANGUR end scope & PALASHBARI is not covered under present scope.	Other ends have to be covered from tele-communication point of view.
99.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification Extension of the Existing 132/33 kV Substation Baghabari We understand that 132/33 kV Mithapukur Substation will be LILO between existing 132/33kV Palashbari & existing 132/33kV Rangpur Substation.	Your understanding is correct.
100.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification In order to design the system, we request you to please confirm the distance between new proposed 132/33 kV Mithapukur Substation & existing Palashbari & existing 132/33kV Rangpur Substation.	Information can't be provided in the moment. The Employer will provide information to selected Bidder Bidders are advised to conduct site visits and inform themselves. The Employer may arrange necessary permissions, if requested by the Bidders. (need discussion)
101.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification Please confirm that new proposed 132/33 kV Mithapukur Substation would be SAS based and no RTU is required under present scope of work.	Your Understanding is correct.
102.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification Please confirm that there would be double circuit line between new proposed 132/33 kV Mithapukur Substation & existing Palashbari & existing 132/33kV Rangpur Substation.	Your understanding is correct.
103.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification	Yes Other ends have to be covered from tele-communication point of

SL No.	Bidder's Query	PGCB's Reply
	We understand that other end i.e existing Palashbari & existing 132/33kV Rangpur Substation is RTU based and extension of 2 Bays each at existing Palashbari & existing 132/33kV Rangpur Substation from new proposed 1132/33 kV Mithapukur Substation is covered under present scope.	PGCB's Reply view.
104.	Volume-2, Technical Specification, Scope of Work & Drawings forming Part of Specification Please confirm the other end Telecommunication equipment i.e existing Palashbari & existing 132/33kV Rangpur Substation is covered under presnet scope.	Yes Other ends have to be covered from tele-communication point of view
105.	Section -I ITB 21.8 Bid Security of JV We understand that bid security can be submitted by Nominated Lead Partner of a JV / Consortium	The bidder shall submit only one bid security covering 100% bid security amount in the name of Bidder only.
106.	Section -I ITB 45. Performance Security We understand that performance security can be submitted by Nominated Lead Partner of a JV / Consortium	Selected bidder shall submit performance security in the name of Bidder only.
107.	Section -III : Evaluation and Qualification Criteria 1.2.3.1 Capitalization of Transformer Losses 1.2.7 Calculation of the Lowest Evaluated Price As the capitalization of transformer losses is applicable for bid evaluation, we request PGCB to declare quoted transformer losses of different bidders during technical bid opening in presence of bidder's authorized representative	Your request is not acceptable. However, quoted transformer losses of different bidders can be declared at the time of price opening in presence of bidder's authorized representative if any.
108.	Section -III : Evaluation and Qualification Criteria 1.7 Manufacturers for Substation Automation system & Protection Relays Qualification requirement of Substation automation system & protection	For standardization of operating performance, facilities and spare requirements, the protection relays and control systems, together with complete panels to be supplied under this project shall be manufactured by: ABB (Switzerland/Sweden), Alstom

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	relays does not call for supply from any specific origin, whereas in the technical specification 5. Protection, Metering and Control it is mention that "the protection relays and control systems, together with complete panels to be supplied under this project shall be manufactured by Siemens (Germany), ABB(Switzerland/Sweden) or Alstom (France/UK) We propose to supply this equipment from GE T&D India manufacturing unit as our Indian manufacturing unit is qualified as per qualification terms and they maintain and produce highest quality of equipment which can meet your operating performance requirements.	(France/UK)(currently known as GE), or Siemens (Germany)
109.	Section VIII SCC 23. Test and Inspection Request PGCB to exclude the responsibility of bearing the costs of witnessing factory acceptance tests by Employer's engineers from contractor's scope.	Not acceptable.
110.	Section VII GCC	-
111.	34. Insurance 34.1 Insurance please delete "and with the deductibles" and replace the last sentence "The identity of the insurers ... such approval." by : "The insurances shall be placed with reputable insurers and on commercially-reasonable terms and can be renewed on a yearly basis. Alternatively, the parties agree that the Contractor may satisfy any or all of the insurance requirements set forth below through self-insurance."	No The Bidder has to follow Tender requirement. Please, pay attention at SCC also
112.	Section VII GCC	No The Bidder has to follow Tender requirements.




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	General Conditions GC 34.2 please replace "co-insured" by "additional insured" in this whole section and please delete the last sentence "All insurer's ... such policies."	Please, pay attention at SCC
113.	Section VII GCC - General Conditions GC 34.3 please delete "or copies of the insurance policies" and please delete the last sentence "The certificates shall provide ... modification of a policy."	No The Bidder has to follow Tender requirements. Please, pay attention at SCC
114.	Section VII GCC - General Conditions GC 34.8 as per attached list of local insurances available in Bangladesh you can see that none of these insurances are with the required insurance company (SadharanBima Corporation)	No The Bidder has to follow Tender requirements. Please, pay attention at SCC
115.	Appendix 3 - Appendix 3 Insurance requirements heading section Please remove "and with the deductibles" and replace the last sentence "The identity of the insurers ... withheld." by : "The insurances shall be placed with reputable insurers and on commercially-reasonable terms and can be renewed on a yearly basis. Alternatively, the parties agree that the Contractor may satisfy any or all of the insurance requirements set forth below through self-insurance."	No The Bidder has to follow Tender requirements.
116.	Appendix 3 - Appendix 3 Insurance requirements heading section Please delete the whole sentence "100% of the insurances in the Employer's country ... Bangladesh."	No The Bidder has to follow Tender requirements.

SL No.	Bidder's Query	PGCB's Reply
117.	Appendix 3 - Appendix 3 Insurance requirements (a) Cargo insurance Deductible column/limit may please be removed. Please add "Contractor and" in Parties insured.	No The Bidder has to follow Tender requirements.
118.	Appendix 3 - Appendix 3 Insurance requirements (b) Installation All Risks insurance Deductible column/limit may please be removed	No The Bidder has to follow Tender requirements.
119.	Appendix 3 - Appendix 3 Insurance requirements (c) TPL insurance Amount may please be replaced by "USD 2,000,000 per each event and USD 2,000,000 in annual aggregate" and deductible column/limit may please be removed. Please add "Contractor and" in Parties insured.	No The Bidder has to follow Tender requirements.
120.	Appendix 3 - Appendix 3 Insurance requirements last section Please replace "co-insured" by "additional insured" in this whole section and please delete the last sentence "In these policies, all insurer's ... such policies."	No The Bidder has to follow Tender requirements.
121.	Appendix 1 B. Payment Procedure Schedule No. 1 – Plant & Equipment Supplied from Abroad – We propose to have Payment for foreign currency of the contract price through an irrevocable commercial letter of credit to be opened by employer in favor of the contractor. All costs in connection with Letter of Credit within Bangladesh shall be borne by the employer and outside Bangladesh shall be borne by the contractor.	No The Bidder has to follow Tender requirements.



SL No.	Bidder's Query	PGCB's Reply
122.	Appendix 1 B. Payment Procedure In case of JV / consortium, we understand that payment shall be credited directly to respective partners of the JV / Consortium for their scope of work.	As per the tender document.
TECHNICAL QUERIES - ELECTRICAL		
EXTENSION OF NEW 220/132 KV AIS RAJSHAH		
123.	Request PGCB to provide the plot plan of existing substation showing the location of new 220KV new S/S with clear visible dimensions.	132kV part of RajshahiSubstation is under construction by separate contract, layout which is not finalized at this moment. The Bidder can find at the provided Layout, in the right-up corner, the approximate position of the substation.
124.	Request PGCB to provide the existing substation control room layout for our reference for BOQ estimation.	132kV part of RajshahiSubstation is under construction by separate contract. Final layout of the control room is not available at this moment but adequate space will be available to accommodate 230kV Control and Protection panels.
125.	Section-1, scope of work and Tender layout drawing PGCB/KW/2012/66, 439/SSN/Z/1, 2 We understand only space provision to be kept for future extension bay, bus extension work, gantry, civil work earthmat, cable trench, Illumination, DSLP etc is not envisaged for any future bay please confirm.	Yes, you understand correctly. But, all permanent facilities, like control building, , cable tranches, etc. have to be considered for final arrangement.
126.	Section-1, scope of work and Tender layout drawing PGCB/KW/2012/66, 439/SSN/Z/1, 2 As per tender layout boundary wall is not covered in this package however as per scope of work (volume-II) 1.2.1 , part of security boundary wall around the 230kV switchyard required please confirm the final requirement, if it is required please provide the length of the boundary wall construction covered in preset scope.	132kV part of RajshahiSubstation is under construction by separate contract 132kV part of Rajshahi Substation is under construction by separate contract Prospective bidders are advised to consider security boundary wall around the periphery of 10 acre land under this contract and

SL No.	Bidder's Query	PGCB's Reply
127.	Section-1, scope of work As per scope of work (volume-II) 1.2.1 extension of existing control room building is the part of this package. Request PGCB to provide the existing control room drawing showing the extension part of control room for our reference and estimation purpose.	internal fence around the 230 kV switchyard. 132kV part of Rajshahi Substation is under construction by separate contract Final layout of the control room is not available at this moment but adequate space will be available to accommodate 230kV Control and Protection panels.
128.	Please furnish the geotechnical data including soil electrical resistivity report detail for our reference.	The geotechnical studies and soil survey investigations, soil resistivity test is in the selected Bidder's scope of work. The prospective bidders are requested to carry out their own assessment on all the concern sites according to their needs before submission of their bids.
129.	Please provide the earthmat layout/main earthmat spacing of existing S/S for our reference.	132kV part of Rajshahi Substation is under construction by separate contract. Bidder has to provide the complete new earthing grid for 230 kV part of substation (shown on the drawing) and all necessary connections to other part of the substation The Bidder has to consider all Tender drawings as preliminary and for Tender purpose only. All dimensions are preliminary and general. Not all equipment is shown. Details are not shown at all. The Selected Bidder has to provide detail design and detail calculation of complete facilities The Selected Bidders has to provide detail drawings as well as all other documents, which will be subject of Employer's final approval
130.	We understand that in case of high resistivity, we can connect existing S/S earthmat with new S/S earthmat for getting safe design kindly confirm.	Yes In any case, both earthing grids have to be connected, according to the detail design.

SL No.	Bidder's Query	PGCB's Reply
131.	We understand that we can use existing S/S cable trench for cable laying for new S/S, if space is available in existing cable trench. Please confirm.	Your understanding is correct, if available only.
132.	Price schedule As per price schedule item no C, there is BOQ of 33kV switchgear, however there is nothing mentioned in scope of work volume-II_1.2.1, please clarify the purpose of these 33kV equipments.	For tertiary purpose to connect two 33/415kV earthing transformer. SLD is already provided The Bidder has to consider all Tender drawings as preliminary and for Tender purpose only. All dimensions are preliminary and general. Not all equipment is shown. Details are not shown at all. The Selected Bidder has to provide detail design and detail calculation of complete facilities The Selected Bidders has to provide detail drawings as well as all other documents, which will be subject of Employer's final approval
133.	Price schedule As per price schedule item no C, there is BOQ of 33kV LA, conductor, gantry, insulator items for 33kV switchyard, however in tender layout we have not found any 33kV switchyard. Kindly provide the tender SLD and tender layout showing the 33kV arrangement for our understanding of scope.	For tertiary winding purpose, to connect two 33/415kV earthing transformer. SLD is already provided The Bidder has to consider all Tender drawings as preliminary and for Tender purpose only. All dimensions are preliminary and general. Not all equipment is shown. Details are not shown at all. The Selected Bidder has to provide detail design and detail calculation of complete facilities The Selected Bidders has to provide detail drawings as well as all other documents, which will be subject of Employer's final approval
134.	Price schedule As per price schedule we understand that existing ACDB to be extended for new S/S, we understand New ACDB/DCDB board to be provided and same to be fed from existing ACDB/DCDB, please confirm whether our understanding is correct?	Yes. Final solution has to be defined during design stage The Selected Bidder has to provide detail design and detail calculation of complete facilities The Selected Bidders has to provide detail drawings as well as all

SL No.	Bidder's Query	PGCB's Reply
		other documents, which will be subject of Employer's final approval
135.	Price schedule As per price schedule we understand that existing ACDB/DCDB to be extended for new S/S, we understand suitable capacity spare feeders are available in existing ACDB/DCDB for the same please confirm.	No, your understanding is partly correct. Information can't be provided in the moment. The Employer will provide information to selected Bidder. Final solution has to be defined during design stage The Selected Bidder has to provide detail design and detail calculation of complete facilities The Selected Bidders has to provide detail drawings as well as all other documents, which will be subject of Employer's final approval
136.	Price schedule As per price schedule we understand that existing DCDB to be extended for new S/S, however it is not clear whether it is 220V or 110V please confirm the voltage level.	110 VDC
137.	Price schedule As per price schedule we understand that existing DCDB to be extended for new S/S, please confirm whether existing battery and battery charger is sufficient to take new S/S load?	Yes, it is believed to be sufficient. However, it shall finalized during detail engineering

SL No.	Bidder's Query	PGCB's Reply
138.	Price schedule As per price schedule we understand that existing 48V DCDB to be extended for new S/S, please confirm from where this new 48V DCDB to be fed?	No, your understanding is partly correct. 132kV part of Rajshahi Substation is under construction by separate contract, hence information can't be provided in the moment. The Employer will provide information to selected Bidder. Final solution has to be defined during design stage The Selected Bidder has to provide detail design and detail calculation of complete facilities The Selected Bidders has to provide detail drawings as well as all other documents, which will be subject of Employer's final approval
139.	Price schedule As per price schedule we understand that existing 48V DCDB to be extended for new S/S, please confirm whether existing battery and battery charger is sufficient to take new S/S load?	Yes
140.	Price schedule Please provide the distance between existing control room building to new 220kV S/S (one gantry point), for our BOQ estimation of cables, cable trench material etc.	132kV part of Rajshahi Substation is under construction by separate contract. The Bidder can find at the provided Layout, in the right-up corner, the approximate position of the control building. No more information can be provided in the moment. The Employer will provide information to selected Bidder.
141.	Section-1, scope of work and Tender layout drawing PGCB/MW/2017-256-436/SSN/1.2 We understand that air-conditioning and lighting is required for extension part of control room building, for existing control room we do not envisaged any scope of work in bidder scope please confirm.	Yes, your understanding is correct Extension of Control building is not required, there is adequate space to accommodate the new panels/equipment. However, for air conditioning the contractor is expected to assess the thermal condition of the control room after installation of equipment under this contract. If the assessment reflects the need of extra air conditioning the contractor has to provide.
142.	For lighting of extension of control room building and lighting for new 220/132kV S/S, spare feeders are available in existing MLDB/ELDB?	No, your understanding is partly correct. Information can't be provided in the moment.

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SL No.	Bidder's Query	PGCB's Reply
	please confirm. We have not found any new MLDB/ELDB in price schedule for new S/S.	The Employer will provide information to selected Bidder. Final solution has to be defined during design stage The Selected Bidder has to provide detail design and detail calculation of complete facilities The Selected Bidders has to provide detail drawings as well as all other documents, which will be subject of Employer's final approval.
143.	Price schedule As per scope of work understand, our scope is limited to termination of overhead conductor (Jack Bus) on 230kV lines side gantry and providing suspension string (if required) /droppers for switchyard equipment (if required). We have not envisaged stringing between 230kV line gantries to dead-end towers and further stringing and other accessories for transmission line. Further, supply & erection of tension string on terminal gantry is excluded from our scope of work.	Yes, your understanding is correct.
144.	Price schedule In case of any conflict in price bid and specification we understand that price bid to be followed. Please confirm.	No The scope of works under this turnkey contract is: design, supply, manufacture, quality assurance, inspection and testing, delivery, new packing for export, insurance, shipment & transport to the site, complete construction and installation, jointing, terminating, bonding, earthing, painting, setting to work, site testing and commissioning, defect liability for all equipment, including all civil works. The Contractor's responsibility is to provide that all parts of the works be completed in every respect for commercial operation, to the requirements of the Engineer. All details, accessories etc. required for the complete installation and satisfactory operation of the works not specifically mentioned in this specification are deemed included in the contract price. The Contractor is responsible for ensuring that all and/or any




SL No.	Bidder's Query	PGCB's Reply
		item(s) of work required for the safe, efficient and satisfactory completion and functioning of the works, are included in the Bid Price whether they be described in the specification or not. In case of extension and renovation works, not all required as-built drawings may be available for the existing plant and equipment, which required modification/renovation; the Contractor is also responsible to make drawings as required to complete the works. The Bidder is be deemed to have visited site, inspected, gathered data and verified details of the as built system in order to design, supply and interface their new equipment. All necessary materials, adjustments, dismantling, remedial and tidying-up work in order to complete the work specified shall be included in the contract price. The Contractor is responsible for ensuring that all and/or any item(s) of work required for the safe, efficient and satisfactory completion and functioning of the works, are included in the bid price whether they be described in the specification or not. Etc.
145.	Price schedule We understand there is no dismantling work envisaged for the subject tender. Please confirm.	No All necessary works have to be included in the contract price, including dismantling works, if any.
146.	Price schedule We understand that all mandatory spare parts, maintenance tool and test equipment shall be as per price schedule. Please confirm.	Yes
147.	Price schedule We understand that for existing substation there is no civil work like road, boundary wall, fence, land development, electrical work, cable trench, earthing, illumination, DSLP cabling, is in bidder scope. Please confirm.	No, your understanding is not completely correct. The Bidder has to follow Tender requirement. For some substation some of those works have to be provided and included in the contract price. Bidders are advised to conduct site visits and inform themselves. The Employer may arrange necessary permissions, if requested

SL No.	Bidder's Query	PGCB's Reply by the Bidders.
148.	Price schedule As per price schedule item no D, transformer is 235/132/33kV, 225/300MVA however as per scope of work 1.2.1, rating of transformer is 230/132/33kV. Kindly correct the description.	Rated voltage is: 230 ±10 x 1,25 % kV / 135kV / 34,5 kV
149.	We understand all control and relay panel for new 220/132 kV S/S shall come in existing control room extension part please confirm.	Yes
150.	Tender layout drawing PGCB/KIW/2012.66.436/SSNZ/1.2 As per tender layout, for main bus-I & II total span is around 80 meter, we understand that for 220kV system 80 meter is high span and during detail engg. stage if required additional gantry to be added in this span??	Yes, your understanding is correct. Maximum span has to cover three bays 230 kV. The Bidder has to consider all Tender drawings as preliminary and for Tender purpose only. All dimensions are preliminary and general. Not all equipment is shown. Details are not shown at all. Final solution has to be defined during design stage The Selected Bidder has to provide detail design and detail calculation of complete facilities The Selected Bidders has to provide detail drawings as well as all other documents, which will be subject of Employer's final approval. Final solution has to be considered in the contract price. Please find a new drawing
151.	Tender layout drawing PGCB/KIW/2012.66.436/SSNZ/1.2 We understand that tender layout is tentative, and same can be optimized during detail engineering stage as per site condition. Please confirm.	Yes, your understanding is correct The Bidder has to consider all Tender drawings as preliminary and for Tender purpose only. All dimensions are preliminary and general. Not all equipment is shown. Details are not shown at all. Final solution has to be defined during design stage The Selected Bidder has to provide detail design and detail calculation of complete facilities The Selected Bidders has to provide detail drawings as well as all other documents, which will be subject of Employer's final approval.

SL No.	Bidder's Query	PGCB's Reply
152.	Tender layout drawing PGCB/KI/W/2012.66.436/SSNZ/1.2 Please provide the detail of conductor type for following connection:- 1) 220kV main bus I&II 2) 220kV bus coupler bay Jack bus. 3) 220kV line bay/Transformer bay Jack Bus. 4) Conductor type for equipment connection for line/transformer/bus coupler bay 5) Jumper connection conductor detail for all type of bay.	PGCB's Reply The Bidder has to follow Tender requirement. Conductors have to be standard conductors in Employer's network, preferably ACSR or AL tube Rated voltage, rated insulation level, rated short circuit current, rated current etc. can be find in the Tender documents Generally speaking for 230 kV: 245 kV, BIL 1050/460 kV, 50 kA, 3150 or 2000 A
153.	Price schedule We understand that if quantity of main equipment (mentioned in price schedule) shall increase as per scope requirement, It shall be paid accordingly. Please confirm.	Only generally speaking. It is applicable ONLY for main equipment: power transformer, circuit breaker. It is NOT APPLICABLE for lot or lump sum price
154.	Tender SLD /Tender Layout PGCB/KI/W/2012.66.436/SSNZ/1.2 PGCB/KI/W/2012.66.436/SSNZ/1.1 As per tender SLD and tender layout for 220kV system there is 5 nos present bay and 4 nos future bay. We understand that main bus to be provided for only present scope of bays (for 5 nos bay). Please confirm.	Yes
155.	Price schedule As per price schedule, we have not found any item and qty for BPI, request PGCB to add same in price schedule.	Post Insulators, if any, have to be considered with necessary material and equipment to complete switchgear.
132/33 KV AIS BANGURA NEW		
156.	Tender SLD drawing PGCB/KI/W/2012.66.436/SSNZ/2.1 As per tender SLD and tender layout for 132kV system there is 3 nos present bay and 6 nos future bay. Please confirm.	No. Four bays – one of them is empty, only busbars.
157.	Tender SLD drawing PGCB/KI/W/2012.66.436/SSNZ/2.1 As per tender SLD there is 2 nos Main buses, we understand in present scope there is only one no main bus is in bidder scope. Please confirm.	Yes
158.	Tender Layout/ Tender SLD drawing	Yes, one of the bay will be empty, only busbars

SL No.	Bidder's Query	PGCB's Reply
	PGCB/KIW/2012.66.436/SSNZ/2.2 PGCB/KIW/2012.66.436/SSNZ/2.1 As per tender SLD, for 132kV system main bus extension is shown for total 5 nos bay (3 no present bay and 2 nos future bay), however as per tender layout main bus extension shown for 4 no bay (3 nos present bay and 1 no future bay), we understand that present scope included main bus extension only for 4 nos bay. Please confirm and provide the revised SLD accordingly.	
159.	Tender Layout /Tender SLD drawing PGCB/KIW/2012.66.436/SSNZ/2.2 PGCB/KIW/2012.66.436/SSNZ/2.1 As per tender SLD for 33kV system main bus shown for 4 nos present bay and 6 nos future bay, however as per tender layout main bus shown for 4 nos present bay and 2 nos future bay. Please confirm the final requirement for how many future bays main bus to be extended?	33 kV Switchgear 1 main busbars, divided at two sections by disconnecter, 2 transformer bays, 2 auxiliary transformer bays 8 future bays (6 from one side and 2 from other side)
160.	Tender Layout /Tender SLD drawing PGCB/KIW/2012.66.436/SSNZ/2.2 PGCB/KIW/2012.66.436/SSNZ/2.1 Please provide the detail of conductor type for following connection:- 1) 132kV and 33kV main bus 2) 132kV and 33kV line bay/Transformer bay Jack Bus. 3) Conductor type for equipment connection for line/transformer bay (for 132kV and 33kV system 4) Jumper connection conductor detail for all type of bay (for 132kV and 33kV system).	The Bidder has to follow Tender requirement. Conductors have to be standard conductors in Employer's network, preferably ACSR or AL tube Rated voltage, rated insulation level, rated short circuit current, rated current etc. can be find in the Tender documents Generally speaking for 132 kV: 132 kV, BIL 650/275 kV, 40 kA, 2000 or 1250 A Generally speaking for 33 kV: 33 kV, BIL 170/70 kV, 25 kA, 2000 or 1600 or 1250 or 630 A
161.	Price Schedule We understand that if quantity of main equipment (mentioned in price schedule) shall increase as per scope requirement, It shall be paid accordingly. Please confirm.	Only generally speaking. It is applicable ONLY for main equipment: power transformer, circuit breaker, It is NOT APPLICABLE for lot or lump sum price
162.	Price Schedule	Yes



SL No.	Bidder's Query	PGCB's Reply
	As per price schedule, B6 no of single phase BPI quantity given is 3 sets; quantity shall increase during execution engineering and shall be amended accordingly. Please confirm.	
163.	Price Schedule As per price schedule 33kV equipment (item no C), there is no item for 33kV BPI, request PGCB to add this item in BPS.	Post Insulators, if any, have to be considered with necessary material and equipment to complete switchgear
164.	Tender Layout /Tender SLD drawing PGCB/K/IW/2012.66.436/SSNZ/2.2 PGCB/K/IW/2012.66.436/SSNZ/2.1 We understand for future bay only space provision to be kept for future extension, gantry work, civil work earthenmat, cable trench , Illumination, DSLP etc is not envisaged for any future bay please confirm.	Yes, you understand correctly. But, all permanent facilities, like control building , cable tranches, etc. have to be considered for final arrangement
165.	Tender Layout /Tender SLD drawing PGCB/K/IW/2012.66.436/SSNZ/2.2 PGCB/K/IW/2012.66.436/SSNZ/2.1 We understand that tender layout is tentative, and same can be optimized during detail engineering stage as per site condition. Please confirm.	Yes, your understanding is correct The Bidder has to consider all Tender drawings as preliminary and for Tender purpose only. All dimensions are preliminary and general. Not all equipment is shown. Details are not shown at all. Final solution has to be defined during design stage The Selected Bidder has to provide detail design and detail calculation of complete facilities The Selected Bidders has to provide detail drawings as well as all other documents, which will be subject of Employer's final approval.
166.	Tender Layout /Tender SLD drawing PGCB/K/IW/2012.66.436/SSNZ/2.2 PGCB/K/IW/2012.66.436/SSNZ/2.1 As per scope of work understand, our scope is limited to termination of overhead conductor (Jack Bus) on 132/33 KV lines side gantry and providing suspension string (if required) /droppers for switchyard equipment (if required). We have not envisaged stringing between 132/33kV line ganties to dead-end towers and further stringing and	Yes, your understanding is correct

SL No.	Bidder's Query	PGCB's Reply
167.	other accessories for transmission line. Further, supply & erection of tension string on terminal gantry is excluded from our scope of work. Price Schedule In case of any conflict in price bid and specification we understand that price bid to be followed. Please confirm.	No The scope of works under this turnkey contract is: design, supply, manufacture, quality assurance, inspection and testing, delivery, new packing for export, insurance, shipment & transport to the site, complete construction and installation, jointing, terminating, bonding, earthing, painting, setting to work, site testing and commissioning, defect liability for all equipment, including all civil works. The Contractor's responsibility is to provide that all parts of the works be completed in every respect for commercial operation, to the requirements of the Engineer. All details, accessories etc. required for the complete installation and satisfactory operation of the works not specifically mentioned in this specification are deemed included in the contract price. The Contractor is responsible for ensuring that all and/or any item(s) of work required for the safe, efficient and satisfactory completion and functioning of the works, are included in the Bid Price whether they be described in the specification or not. In case of extension and renovation works, not all required as-built drawings may be available for the existing plant and equipment, which required modification/renovation; the Contractor is also responsible to make drawings as required to complete the works. The Bidder is be deemed to have visited site, inspected, gathered data and verified details of the as built system in order to design, supply and interface their new equipment. All necessary materials, adjustments, dismantling, remedial and tidying-up work in order to complete the work specified shall be included in the contract price.

SL No.	Bidder's Query	PGCB's Reply
		The Contractor is responsible for ensuring that all and/or any item(s) of work required for the safe, efficient and satisfactory completion and functioning of the works, are included in the bid price whether they be described in the specification or not. Etc.
168.	Price Schedule We understand there is no dismantling work envisaged for the subject tender. Please confirm.	No. All necessary works have to be included in the contract price, including dismantling works, if any
169.	Price Schedule We understand that all mandatory spare parts, maintenance tool and test equipment shall be as per price schedule. Please confirm.	Yes
170.	Please furnish the geotechnical data including soil electrical resistivity report detail for our reference.	The geotechnical studies and soil survey investigations is in the selected Bidder's scope of work.
132/33 KV AIS BAGHABARI EXTENSION		
171.	Price Schedule/Scope of work section-1/Tender SLD PGCB/K/IW/2012.66.436/SSNZ/3.1 Scope is not clear? From price schedule, tender SLD and scope of work we understand that re-testing and re-commissioning of existing 132kV bay is in bidder scope, however we have not envisaged supply/erection of any new item and any civil work is in bidder scope. Kindly confirm whether our understanding is correct?	Yes, your understanding is correct
172.	Price Schedule/Scope of work section-1/Tender SLD PGCB/K/IW/2012.66.436/SSNZ/3.1 As per price schedule "all other necessary material and equipment, if any to complete the 132kV switchgear" as per tender SLD we have not found any 132kV bay extension work in bidder scope. Please clarify the scope and accordingly add the main equipment, electrical and other civil item in price schedule.	No main equipment, only works.
173.	Price Schedule/Scope of work section-1/Tender SLD PGCB/K/IW/2012.66.436/SSNZ/3.1	No main equipment, only works