

POWER GRID BANGLADESH PLC

Clarification No. 01

(December __, 2025)

Design, Supply, Installation, Testing & Commissioning of 132/33 kV AIS Substation at Paikgacha and 132/33 kV AIS Substation at Mathbaria including associated 132KV bay extension at Sathkhira 132/33kV grid substation & at Bhandaria 132/33kV grid substation on turnkey basis (Package-3)

(OCB NO. POWERGRID/ADB/PTSIREP/Package-3, Date: October 26, 2025)

Pre-bid meeting was held on 17 November, 2025 as per clause 7.4 of Instruction to Bidders of Volume 1 of 3 of the Bidding documents. Some queries were received from the prospective Bidders regarding the Bidding Documents. Clarifications on these queries are given below, which will form part of the bidding documents.

Serial No.	Volume	Section/Clause No.	Bidder's Query	Reply from Power Grid	Addendum Yes(Y)/No(N)
1	Volume 1 of 3	Section 3 Evaluation and Qualification Criteria / 2.6 Subcontractors and Section 4: Bidding Forms / Form EXP - 6: Subcontractors	Description: Section 3 (Evaluation and Qualification Criteria) / 2.6 Subcontractors - As per tender requirement every equipment manufacturer have to provide Form EXP-6 Section 4: Bidding Forms / Form EXP - 6: Subcontractors Bidder's Query: Section 4 (Bidding Forms) / Form EXP-6: Subcontractors - Contract Name, Identification, Value and Details of Contract is Required. As per our understanding Form "EXP-6: Subcontractors" is only for Electrical and Civil Works subcontractors, not for manufacturers. Every equipment manufacturer does not need to provide Form EXP-6. Moreover, from our previous experience we have seen that manufacturers do not want to provide this document because contract name, contract identification, contract value these are not related information with manufacturers. Please confirm our understanding is correct.	Your understanding is correct.	N

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2	Volume 1 of 3	BOQ: 1F.6, 2F.6, 3F.2, 4F.2	"One meter for each 132KV feeder" is stated in the BOQ, but two meters(main+check) are shown in the drawings. Please Confirm how many tariff meters shall be provided for 132kV transformer bay ,132kV line bay, and 33kV bay.	The correct quantity shall be as per the price schedule and Schedule A of Volume 3 (SS) for these items.	N
3	Volume 1 of 3	BOQ: 1F.11, 2F.11	(a) There are 2 nos meters for 33kV in the 1F.11(a) , we believe they are provided for 33kV incomer of 132/33kV Transforemrs. Please confirm. (b)Please clarify whether we shall provide tariff meters for 33kV outgoing feeders and Auxiliary transformer feeder bays. And how many outgoing feeders in 33kV side, maybe five ?	(a) Confirmed. (b) Tariff meters for 33kV outgoing feeders and 33kV sidde of Auxiliary transformer feeder bays are not under scope of this contract.	N
4	Volume 1 of 3	BOQ: 1I,2I	AC UPS inverter is missing in 1I,2I of BOQ	This a part of SAS. Please see Addendum-1.	Y
5	Volume 1 of 3	BOQ: 1F.7, 2F.7	Additional BCUs to control 5 (five) nos. 33kV outgoing feeders from NLDC. Please confirm the protection relay for 33kV Bus Section and outgoing feeders is not in the scope of work.	Your understanding is correct.	N
6	Volume 1 of 3	BOQ: 3F.1, 4F.1	We noted that there is no BBP unit, so no 132KV busbar protection is in existing substation, and busbar protection is NA for new extension bays.	Your understanding is correct.	N
7	Volume 1 of 3	Price Schedule_Package 3_Bay extension of Bhandaria /Schedule 4/Civil Works, Building and Foundation/4K.1/iv	Description: Switchyard surface finishing with drainage system including outlet (including surface drain). Bidder's Queries: Kindly clarify if the surface drain is to be provided for the entire substation area or only for the proposed switchyard area up to the outlet.	Only for the proposed switchyard area up to the outlet.	N
8	Volume 1 of 3	Price Schedule_Package 3_Bay extension of	Description: Gravel laying in switchyard area. Bidder's Query:	Existing switchyard gravel can be reused in the switchyard area if those are usable. necessary cleaning/washing is required before placing. But	N

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		Bhandaria /Schedule 4/Civil Works, Building and Foundation/4K.1/v	Please confirm whether the existing switchyard gravel can be reused in the switchyard area.	if required as per calculation, additional gravel shall be supplied.	
9	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [1F.1 (a)]/ All protection relay (Main 1, Main 2/Backup, BBP Bay unit) Description of questions: There is mention all protection relay (Main 1, Main 2/Backup, BBP Bay unit) for Line Bay. Here, what does mean by 'Main 2/Backup'? Does it mean 'Main 2 or Backup' or 'Main 2 as Backup'? Please confirm.	It means "Main 2 or Backup". However, during detailed design, it will be finalized as per the approved Protection SLD.	N
10	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [1F.2 (a)]/ All protection relay (Main 1, Main 2/Backup, BBP Bay unit) Description of questions: There is mention all protection relay (Main 1, Main 2/Backup, BBP Bay unit) for Tr Bay. Here, what does mean by 'Main 2/Backup'? Does it mean 'Main 2 or Backup' or 'Main 2 as Backup'? Please confirm.	It means "Main 2 or Backup". However, during detailed design, it will be finalized as per the approved Protection SLD.	N
11	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [1F.3 (a)]/ All protection relay (Main 1, Main 2/Backup, BBP Bay unit) Description of questions: There is mention all protection relay (Main 1,	It means "Main 2 or Backup". However, during detailed design, it will be finalized as per the approved Protection SLD.	N

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			Main 2/Backup, BBP Bay unit) for Buscoupler Bay. Here, what does mean by 'Main 2/Backup'? Does it mean 'Main 2 or Backup' or 'Main 2 as Backup'? Please confirm.		
12	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [1F.7 (c)]/ BCU for all common signals of the substation and additional BCUs to control 5 (five) nos. 33kV outgoing feeders from NLDC. Description of questions: Although, additional BCUs to control 5 (five) nos. 33kV outgoing feeders from NLDC are required as per schedule-1. But As per Tender SLD (Section-18, Volume-2 of 3), there is no 33kV Outgoing feeders. Please confirm whether it is required or not? If required, then share the SLD of outgoing feeders. Also does it mean 5 nos BCU required?	Control and monitoring facility of 5 nos. 33 kV outgoing feeders are within the scope of work. 33KV feeders will be built by the distribution authority. During the execution stage, if the 33KV feeder is not available, then the EPC shall temporarily install the BCUs panel at the grid control room and test the feeder control from NLDC using a dummy breaker.	N
13	Volume-2 of 3	Section-18: Drawings	Original Clause: PAIKGACHA 132 / 33 KV Substaiton SLD/ Drawing no : PG/ADB/SLD.1 Description of questions: As per tender SLD, Aux. Tr Bay has only DS with FUSE. But as per price schedule-1 (Item-1D1, Volume-1 of 3), 33kV VCB & EDS has considered for Aux. Tr Bay and also as per price schedule-1 (Item- 1F9, volume-1 of 3), CRP has considered for Aux. Tr Bay. Please confirm whether we should follow tender SLD or Price schedule?	As per tender SLD Aux. Tr Bay has only DS with FUSE. Please see addendum 1	Y
14	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [1D.1]/ 36kV	As per tender SLD Aux. Tr Bay has only DS with FUSE. Please see addendum 1	Y

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			Switches & connection for Auxiliary Transformer Description of questions: CT has not been considered for 33kV Aux. TR Bay. Then, which CT will be connected to protection relay of Aux. Tr Bay? Please clarify & confirm.		
15	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [1D.1 and 1D.2]/ 36kV Switches & connection for Auxiliary Transformer and 36kV Switches & connection for Incomer/ LV side of 132/33 kV Transformer Description of questions: There is 4nos of 33kV bays (2 nos of 33kV Tr incoming bays & 2 nos of Aux. Tr bays). But as per price schedule-1 (Item-1F.11, volume-1 of 3), 2nos Tariff Meters have been considered for 33kV bays. We are considering these two Tariff Meters for two Tr incoming bays. We are not considering any Tariff Meters for 33kV Aux. Tr bays. Please confirm.	Yes, confirmed. Tariff meter for 33kV side of auxiliary transformers are not under scope of this contract.	N
16	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [2F.1(a)]/ All protection relay (Main 1, Main 2/Backup, BBP Bay unit) Description of questions: There is mention all protection relay (Main 1, Main 2/Backup, BBP Bay unit) for Line Bay. Here, what does mean by 'Main 2/Backup'? Does it mean 'Main 2 or Backup' or 'Main 2 as Backup'? Please confirm.	It means "Main 2 or Backup". However, during detailed design, it will be finalized as of approved Protection SLD.	N

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17	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [2F.2(a)]/ All protection relay (Main 1, Main 2/Backup, BBP Bay unit) Description of questions: There is mention all protection relay (Main 1, Main 2/Backup, BBP Bay unit) for Tr Bay. Here, what does mean by 'Main 2/Backup'? Does it mean 'Main 2 or Backup' or 'Main 2 as Backup'? Please confirm.	It means "Main 2 or Backup". However, during detailed design, it will be finalized as of approved Protection SLD.	N
18	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [2F.3(a)]/ All protection relay (Main 1, Main 2/Backup, BBP Bay unit) Description of questions: There is mention all protection relay (Main 1, Main 2/Backup, BBP Bay unit) for Buscoupler Bay. Here, what does mean by 'Main 2/Backup'? Does it mean 'Main 2 or Backup' or 'Main 2 as Backup'? Please confirm.	It means "Main 2 or Backup". However, during detailed design, it will be finalized as of approved Protection SLD.	N
19	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [2F.7(c)]/ BCU for all common signals of the substation and additional BCUs to control 5 (five) nos. 33kV outgoing feeders from NLDC. Description of questions: Although, additional BCUs to control 5 (five) nos. 33kV outgoing feeders from NLDC are required as per schedule-1. But As per Tender SLD (Section-18, Volume-2 of 3), there is no	Control and monitoring facility of 5 nos. 33 kV outgoing feeders are within the scope of work. 33KV feeders will be built by the distribution authority. During the execution stage, if the 33KV feeder is not available, then the EPC shall temporarily install the BCUs panel at the grid control room and test the feeder control from NLDC using a dummy breaker.	N

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			33kV Outgoing feeders. Please confirm whether it is required or not? If required, then share the SLD of outgoing feeders. Also does it mean 5 nos BCU required?		
20	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [2D.1]/ 36kV Switches & connection for Auxiliary Transformer Description of questions: CT has not been considered for 33kV Aux. TR Bay. Then, which CT will be connected to protection relay of Aux. Tr Bay? Please clarify & confirm.	As per tender SLD Aux. Tr Bay has only DS with FUSE. Please see addendum 1	Y
21	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [2D.1 and 2D.2]/ 36kV Switches & connection for Auxiliary Transformer and 36kV Switches & connection for Incomer/ LV side of 132/33 kV Transformer Description of questions: There is 4nos of 33kV bays (2 nos of 33kV Tr incoming bays & 2 nos of Aux. Tr bays). But as per price schedule-1 (Item-2F.11, volume-1 of 3), 2nos Tariff Meters have been considered for 33kV bays. We are considering these two Tariff Meters for two Tr incoming bays. We are not considering any Tariff Meters for 33kV Aux. Tr bays. Please confirm.	Yes, confirmed. Tariff meter for 33kV side of auxilliary transformers are not under scope of this contract.	N
22	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [3F.1(a)]/ All protection relay (Main 1, Main 2/Backup)	Your understanding is correct	N

			Description of questions: Here, Busbar Protection relay has not been considered. So we have understood that existing substation don't have Busbar Protection & we are not considering Busbar Protection relay for extended bays. Please confirm.		
23	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [3F.1(a)]/ All protection relay (Main 1, Main 2/Backup, BBP Bay unit) Description of questions: There is mention all protection relay (Main 1, Main 2/Backup, BBP Bay unit) for Line Bay. Here, what does mean by 'Main 2/Backup'? Does it mean 'Main 2 or Backup' or 'Main 2 as Backup'? Please confirm.	It means "Main 2 or Backup". However, during detailed design, it will be finalized as per the approved Protection SLD.	N
24	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/Section-III BAY EXTENSION OF SHATKHIRA 132/33 KV AIS SUBSTATION Description of questions: DFDR extension work has not been found in price schedule. So, we understood that existing Substation has no DFDR system & we are not considering any DFDR item for bay extension. Please confirm.	Your understanding is correct	N
25	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [4F.1(a)]/ All protection relay (Main 1, Main 2/Backup)	Your understanding is correct	N

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			Description of questions: Here, Busbar Protection relay has not been considered. So we have understood that existing substation don't have Busbar Protection & we are not considering Busbar Protection relay for extended bays. Please confirm.		
26	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/ Item [4F.1(a)]/ All protection relay (Main 1, Main 2/Backup, BBP Bay unit) Description of questions: There is mention all protection relay (Main 1, Main 2/Backup, BBP Bay unit) for Line Bay. Here, what does mean by 'Main 2/Backup'? Does it mean 'Main 2 or Backup' or 'Main 2 as Backup'? Please confirm.	It means "Main 2 or Backup". However, during detailed design, it will be finalized as per the approved Protection SLD.	N
27	Volume-1 of 3	Section-4: Bidding Forms	Original Clause: Schedule 1: Plant and Mandatory Spare Parts Supplied from Abroad/Section-IV BAY EXTENSION OF BHANDARIA 132/33 KV AIS SUBSTATION Description of questions: DFDR extension work has not been found in price schedule. So, we understood that existing Substation has no DFDR system & we are not considering any DFDR item for bay extension. Please confirm.	Your understanding is correct	N
28	Volume-2 of 3	Section-18: Drawings	Original Clause: MATHBARIA 132 / 33 KV Substation SLD/ Drawing no : PG/ADB/SLD.2 Description of questions:	As per tender SLD Aux. Tr Bay has only DS with FUSE. Please see addendum 1	Y

			As per tender SLD, Aux. Tr Bay has only DS with FUSE. But as per price schedule-1 (Item- 2D1, Volume-1 of 3), 33kV VCB & EDS has considered for Aux. Tr Bay and also as per price schedule-1 (Item- 2F9, volume-1 of 3), CRP has considered for Aux. Tr Bay. Please confirm whether we should follow tender SLD or Price schedule?		
29	Volume 2 of 3	SECTION 5 - SUBSTATION AUTOMATION SYSTEM, Protection, Metering and Control	Description: 5.2.1 For standardization of operating performance, facilities and spare requirements, the protection relays and control systems, together with complete panels to be supplied under this project shall be manufactured by Hitachi (Switzerland/Sweden), Alstom/GE (France/UK/USA), Siemens (Germany), SEL (USA/UK/Canada), NR Electric (China) or equivalent. Since some of the above mentioned make, viz., Hitachi (Switzerland/Sweden), Alstom/GE (France/USA/UK), SEL (USA/UK/Canada), NR Electric (China) and Siemens (Germany) make Protection Relay and Substation Automation System (SAS) are already existed in PGCB's System and their performance is proven, only Manufacturer's Authorization letter among the Qualification Criteria of clause 2.6 of Section 3 of volume 1 of 3 of the Bidding Document is required to be submitted with the bid of the bidders who choose to propose Relay & SAS from these proven manufacturers. Acceptance of any other Relay, control system and SAS with similar characteristics shall have to fulfil the Qualification Criteria of clause 2.6 of Section 3 of volume 1 of 3 of the Bidding Document.	Your understanding is correct.	N

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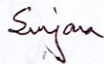
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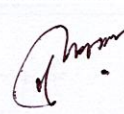
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			5.2.6 Since some of the above mentioned make, viz., ABB (Switzerland/Sweden), Alstom/GE (France/UK/USA), Siemens (Germany), NR Electric (China), SEL (USA), relay and control system is already existed in PGCB's System and their performance is proven, only Manufacturer's Authorization letter among the Qualification Criteria of sub-clause 2.6 of Section 3 of volume 1 of 3 of the Bidding Document is required to be submitted with the bid of the bidders who choose to propose Relay & SAS from these proven manufacturers. Acceptance of any other relay, control system and SAS with similar characteristics shall have to fulfill the Qualification Criteria of sub-clause 2.6 of Section 3 of volume 1 of 3 of the Bidding Document. Bidder's Query: As per our understanding for Hitachi (Switzerland/Sweden), Alstom/GE (France/UK/USA), Siemens (Germany), SEL (USA/UK/Canada), NR Electric (China) make Relay & SAS, we only need to consider Manufacturer's Authorization Letter, Valid ISO 9001:2015 certificates and Schedule E (Technical Particulars & Guarantees). No need to consider any other manufacturer's documents as per Section 3, Clause no. 2.6. Please confirm our understanding is correct.		
30	Volume 2 of 3	Section 5: Protection, Metering and Control Including Substation Automation / 5.19	Description: 5.19.2 For the purpose of standardization, the DFDR to be supplied under this project shall be from Qualitrol (Belgium/UK), SIEMENS (Germany) , SEL (USA) or equivalent.	Your understanding is correct.	N








		Digital Fault and Disturbance Recorder (DFDR)	5.19.4 Since some of the above mentioned make, viz., Qualitrol (Belgium/UK), SIEMENS (Germany), SEL (USA) DFDR is already existed in PGCB's System and their performance is proven, only Manufacturer's Authorization letter among the Qualification Criteria of sub-clause 2.5 of Section 3 of volume 1 of 3 of the Bidding Document is required to be submitted with the bid of the bidders who choose to propose DFDR from these proven manufacturers. Acceptance of any other DFDR with similar characteristics shall have to fulfill the Qualification Criteria of sub-clause 2.5 of Section 3 of volume 1 of 3 of the Bidding Document. Bidder's Query: As per our understanding for Qualitrol (Belgium/UK), SIEMENS (Germany), SEL (USA) make DFDR, we only need to consider Manufacturer's Authorization Letter, Valid ISO 9001:2015 certificates and Schedule E (Technical Particulars & Guarantees). No need to consider any other manufacturer's documents as per Section 3, Clause no. 2.6. Please confirm our understanding is correct.		
31	Volume 2 of 3	Section 14 / FIBRE OPTIC MULTIPLEXER AND POWER LINE CARRIER EQUIPMENT FOR COMMUNICATION AND PROTECTION	Description: For standardization of operation performance, facilities and spare requirements, the fibre optic multiplexer equipment for communication and protection to be supplied under this project shall consist of equipment which can totally be integrated into the existing telecommunication system in PGCB's network, including the telecommunication network management	Your Understanding is correct. However, for telecommunication equipment necessary type test report shall have to be submitted with bid proposal for acceptance as per section 14 of Volume 2 (SS) clause no. 14.1	N

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			system. The fibre optic multiplexers presently used in PGCB's network are: # Hitachi FOX 515/615, and # GE MSE 5001, MSE 5010 # Huawei OSN 1800V, E6616 The Manufacturer of Telecommunication system – Fibre optic multiplexer equipment for communication and protection shall be: Hitachi Energy (Switzerland)(Former ABB), , GE (Former Alstom/Areva), HUAWEI (China) Any other Manufacturer of Telecommunication system shall have to fulfil the Qualification Criteria required in sub-clause 2.6. of Section 3 of Volume 1 of Tender documents. Bidder's Query: As per our understanding for: Hitachi Energy (Switzerland)(Former ABB), GE (Former Alstom/Areva), HUAWEI (China) make Telecommunication system – Fibre optic multiplexer equipment for communication and protection, we only need to consider Manufacturer's Authorization Letter, Valid ISO 9001:2015 certificates and Schedule E (Technical Particulars & Guarantees). No need to consider any other manufacturer's documents as per Section 3, Clause no. 2.6. Please confirm our understanding is correct.		
32	Volume 2 of 3		The SLD of the two substations show that the 33kV side of the auxiliary transformer adopts load switches, but the BOQ indicates that circuit breakers and disconnectors are used. Please clarify which method to adopt. If circuit breakers and disconnectors are used, should	33 kV Auxiliary Transformer Connection Scheme has been revised. Please see Addendum-1.	Y

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			current transformers, voltage transformers, and lightning arresters be added to facilitate transformer protection? If circuit breakers and disconnectors are used, please update the BOQ and add current transformers, voltage transformers and lightning arresters. If not using circuit breakers and disconnectors, please modify the circuit breakers and disconnectors in the BOQ to load switches.		
33	Volume 2 of 3		The tender documents and the SLD do not indicate that a reserve position for the future transformer is required. However, the general electrical layout plan shows that there will be another transformer in the future. Please clarify whether the future main transformer position has been considered, or specify the future scale.	Space provision for one future transformer shall be kept.	N
34	Volume 2 of 3	Site Visit- Sathkhira 132/33kV AIS Substation	Description: Sathkhira 132/33kV AIS Substation The new portion of the Sathkhira substation is under construction. Only foundation and boundary work has been done till now. Bidder's Query: Please provide the information about make & model if there is/ will be any existing/ upcoming SAS panel and BBP panel.	SAS and BBP Panel are not available in this substation.	N
35	Volume 2 of 3	Site Visit- Bhandaria 132/33kV AIS Substation	Description: Bhandaria 132/33kV AIS Substation Bidder's Query: Please provide the information about make & model if there is/ will be any existing/ upcoming SAS panel and BBP panel.	SAS and BBP Panel are not available in this substation.	N

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36	Volume 2 of 3	Site Visit- Mathbaria 132/33kV AIS Substation	Description: As per the site visit, existing electric poles and lines are present in the proposed project area. Bidder's Query: The bidder's understands that the relocation of existing electric poles and lines is the responsibility of the employer.	Your understanding is correct.	N
37	Volume 2 of 3	Transformer fire- fighting	Description: Complete fire-fighting Systems for transformer Bidder's Queries: Is there a requirement for a complete fire-fighting system for the transformer? Please clarify. If required, kindly include it in the Price Schedule.	Not required.	N
38	Volume- 2 of 3	Section -18/ Drawing	Description: A 33 kV switchyard and a 33 kV control building are shown in the overall layout drawings for both the Paikgacha and Mathbaria new substations. Bidder's Queries: The bidders understand that the 33 kV switchyard and the 33 kV control building shown in the overall layout drawings are not within the bidders' scope of work. If these facilities are to be included in the bidders' scope, kindly revise the Price Schedule accordingly.	33KV Bus skeleton shall be built for eight (08) nos of 33KV bays including incomer bays. 33 kV Control building is not included in this scope.	N
39	Volume 2 of 3	Site Visit- Sathkhira 132/33kV AIS Substation	Description: The new portion of the Sathkhira substation is under construction. Only foundation and boundary work has been done till now. Bidder's Query: The new portion of the substation is not ready yet. Please provide the relay information, i.e.,	SAS and BBP Panel are not available in this substation. So other bay information is not relevant.	N

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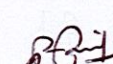
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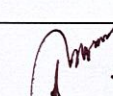
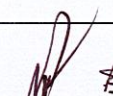
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			the makes & models of the conjunction bays, CRP panel, and BBP.		
40	Volume 2 of 3	Site Visit- Bhandaria 132/33kV AIS Substation	Description: The existing cable trench and 1 no. CB foundation condition are not so good. Bidder's Query: Do contractors have to consider the replacement or modification work?	Consider modification	N
41	Volume- 2 of 3	Section -18/ Drawing/ Drawing No- PG/ADB/MCRP-1 and PG/ADB/MCRP-2	Description: Main Control Building _ Ground Floor Plan View and First Floor Plan View are shown as the same plan view. Bidder's Queries: As per bidders understanding, ground floor arrangements will not be same as 1st floor. Please clarify whether any specific room requirements for ground floor ?	Room arrangement is specified note 2. in floor plan drawing.	N
42	Volume 2 of 3	4.9.1 Bushings	Description: 4.9.1 Bushings Some of the above mentioned make, viz., Hitachi (Sweden), Trench (France/USA), HSP (Germany) & GE (Italy) make bushings are already existed in PGCB's System and their performance is proven. Hence, if the bidder choose to propose bushings from other manufacturers, the proposed manufacturer shall have at least thirty (30) years of manufacturing experience of Resin Impregnated Paper (RIP) bushings prior to the date of bid submission with minimum delivery of at least three hundred (300) nos. of similar or higher rating Resin Impregnated Paper (RIP) bushings with silicon composite housing over the last ten years outside the manufacturer's own country and the bushings similar to or	Pease follow bidding document.	N



			higher rating of the proposed type shall have complete type test report as per relevant IEC standard (IEC 60137) from any independent/STL testing laboratory. The bidders shall have to submit relevant documents with their bids. Bidder's Query: Considering the long manufacturing lead time of the above-mentioned European manufacturers, we respectfully request you to accept the products from the same manufacturers' China facilities. This will ensure equivalent quality at a lower cost and with a significantly shorter delivery period. If products from the same manufacturer's China origin are accepted, then submission of the qualification documents specified above should no longer be required. Kindly confirm.		
43	Volume 3 of 3	SCHEDULE A - INTRODUCTION & PREAMBLE TO THE PRICE & TECHNICAL SCHEDULES / 6. Factory acceptance tests /	Description: The Contract Price shall include all costs of factory acceptance tests at the manufacturers' works and the instruction of staff on site for the following: 1. Transformers 2. Circuit Breaker 3. Disconnecter 4. Instrument Transformer (PT) 5. Instrument Transformer (CT) 6. Lightning Arrester 7. Control, Protection & SAS 8. DC system 9. Communication The Contractor shall have to submit the Schedule and factory acceptance test format of each stated above and take approval from the Employer prior 3 months before conducting	Your understanding is right. However, no. of engineers and no. of days for FAT shall be finalized during execution.	N

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			each factory acceptance test. Bidder's Query: Please share the details of FAT like how many engineers will go for FAT, for how many days, etc. As per GCC Clause 23.2, the Employer shall bear all costs and expenses incurred in connection with such attendance during the Factory Acceptance Test (FAT), including but not limited to travel, board, and lodging expenses, as well as daily allowance for the Employer's representative. Kindly reconfirm our understanding.		
44	Volume 3 of 3	SCHEDULE A - INTRODUCTION & PREAMBLE TO THE PRICE & TECHNICAL SCHEDULES / 5. O & M training for new substations	Description: In "Schedule 4D: Installation and Other Services" of the Price Schedule, costs of Local O&M Training are fixed ceiling and will be included in the total price. Bidder's Query: We could not find any provisional sum amount for Local O&M Training in the Price Schedule. Kindly verify and confirm.	Please see Addendum-1.	Y
45	Volume 3 of 3	GTP / 1.1.4 33KV CIRCUIT BREAKERS and Schedule A - REQUIREMENTS	Description: GTP - 1.1.4 33KV CIRCUIT BREAKERS 1.7 - Isolating and quenching medium - SF6/Vacuum 1D1.1 Two (2) sets of 36kV, 800A, 31.5 kA/1 sec, 50Hz, 170kVp BIL, vacuum circuit breakers with spring-stored energy operating mechanism. 2D1.1 Two (2) sets of 36kV, 800A, 31.5 kA/1 sec, 50Hz, 170kVp BIL, vacuum circuit breakers with spring-stored energy operating	Yes, confirmed.	N

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			mechanism. Bidder's Query: In Volume 3, Schedule A - requirements, Item No. 1D1.1 and 2D1.1 it is mentioned that for 36kV Circuit Breaker Isolating and quenching medium is Vacuum but in GTP of 33kV Circuit Breaker the Isolating and quenching medium is SF6/Vacuum. We are requesting to accept SF6/Vacuum. Kindly confirm.		
46	Volume 3 of 3	Schedule D / Item No. 03	Description: Item No. 03 33kV AIS SWITCHGEAR (same as 145kV Switchgear) Bidder's Queries: As per Schedule D, Item No. 03, it is mentioned as "33kV AIS SWITCHGEAR (same as 145kV Switchgear)". We would like to seek clarification on the meaning of "same as 145kV Switchgear." Does this imply that the manufacturer for both 132kV and 33kV switchgear must be the same? If so, we would like to respectfully note that there are several qualified manufacturers capable of producing 33kV switchgear with satisfactory supply records in Bangladesh. Therefore, we kindly request that the requirement for both 132kV and 33kV switchgear to be from the same manufacturer be removed to allow participation from other qualified 33kV switchgear manufacturers.	Please see Addendum-1.	Y
47	Volume 3 of 3	1.1.1 Part 7 – GTP of Control, Protection, Substation	Description: 1.1.1 Part 7 – GTP of Control, Protection, Substation Automation & Metering	The EPC contractor shall submit it during execution stage according to the provided common GTP.	N

		Automation & Metering	Bidder's Queries: Common GTP of each protection relays are provided while there are three voltage levels in the project (132KV & 33KV). Our solution contains relays of different CT input, VT input, binary inputs & outputs based on different voltage levels. Hence, individual GTP for each voltage level is required. Please clarify.		
48	Volume 3 of 3	1.1.1 Part 7.4 – GTP of Bay Control Unit (BCU) & Protection Unit (BCPU):	Description: 1.1.1 Part 7.4 – GTP of Bay Control Unit (BCU) & Protection Unit (BCPU): Bidder's Queries: 10nos voltage transformer inputs are required for Bay Control Unit (BCU) device. Usually it can be required for Bus coupler BCU only. BCU for other feeders don't require the same VT inputs. But there is only 1 common GTP for BCU. Please clarify.	Please see Addendum-1.	Y
49	Volume 3 of 3	GTP / 2.3 132/33 kV 50/75 MVA ONAN/ONAF Power transformer	Description: 2.3 132/33 kV 50/75 MVA ONAN/ONAF Power Transformer Bidder's Queries: For GTP of 132/33 kV 50/75 MVA ONAN/ONAF Power Transformer, the provided GTP is filled up with data of Sanbian Sci-tech Co., Ltd. and there is no requirement column in GTP. Please provide a revised GTP with appropriate requirement data. Please clarify.	Please see Addendum-1.	Y
50	Volume 3 of 3	GTP / 7.4 / P# SE-133	Description: Bay Control Unit (BCU) & Protection Unit (BCPU) Bidder's Query: In the price schedule (1F.1), only BCU is	Only BCU is required.	N

			mentioned, whereas in the GTP both BCU and BCPU are mentioned. Please confirm whether only BCU is required.		
52	Volume 3 of 3	GTP / 7.16 / 3.2 / P# SE-157	Description: PC based gateway is not accepted Bidder's Query: Currently, all SAS manufacturers have adopted PC-based gateways, and in many projects, such gateways have been supplied to PGCB and are now operational. Please confirm whether PC based gateway would be acceptable.	Acceptable. Please see Addendum-1.	Y
54	Volume- 3 of 3	SCHEDULE A/Section III 132 kV Bay extension at SATHKHIRA 132/33 KV AIS Substation & Section IV 132 kV Bay extension at Bhandaria 132/33 KV AIS Substation/ Civil Works, Building and Foundation	Description: 3K1 & 4K1 : Land development of complete switchyard area by cutting, land filling, compacting up to a suitable level including slope protection. 3K2 & 4K2 : One (1) lot of complete design, supply and construction of all civil items required for the outdoor works suitable for switchyard gantry & equipment foundations, transformer foundations, blast walls, oil pit, entrance & internal roads, cable trenches, septic tank, surfacing, drainage, fences, guard house, boundary wall , gravel laying, sentry post, ansar barac etc. Bidder's Queries: Based on our site visit and review of the price schedule, there is no requirement for site development, transformer foundations, blast walls, an oil pit, entrance and internal roads, a septic tank, drainage, fences, a boundary wall, a sentry post, or an Ansar barrack, etc. Please confirm our understanding.	Please see Addendum-1.	Y

55	Volume 1 of 3 and Volume 3 of 3 and Volume 2 of 3	Price Schedule, Schedule-1 & 2 & 3, Section I (Item: 1D1) & Section II (Item: 2D1), Schedule A (Requirements)-Section I (Item: 1D1) & Section II (Item: 2D1), Drawings-33kV Auxiliary Transformer Connection Scheme	Description: For the Paikgacha & Mathbaria 132/33 kV Substation, in the price schedule and Schedule A of 33 kV switches and connections for auxiliary transformers, the listed equipment are circuit breakers and disconnectors with earth switches. But as per the provided drawing, no circuit breaker is used, and a DS with a fuse along with a lightning arrester is used with the auxiliary transformer. Bidder's Query: As per our understanding, if a circuit breaker is used for auxiliary transformer protection, the respective CT & PT need to be used. Also, the GTP of the current transformer is provided in the tender document. And also provided drawing of 33kV Auxiliary Transformer Connection Scheme is okay. Please confirm the arrangement for the auxiliary transformer side and revise the price schedule & Schedule A accordingly if required.	Please see Addendum-1.	Y
56	Volume 3 of 3 and Volume 2 of 3	Schedule A, Description of works (PAIKGACHA 132/33 KV AIS SUBSTATION) and Drawings-Paikgacha 132/33kV Substation Layout	Description: The scope of work mentioned provision kept for future four overhead 132 kV line/transformer bay arrangements. But the layout plan given only includes three 132 kV future bays. Bidder's Query: Please confirm whether arrangements for the four future 132 kV bays as per the scope of work are required.	Arrangements for three future 132 kV bays are required. Please see addendum-1.	Y
57	Volume 1 of 3 and	Price Schedule, Schedule-4, Line item: 1K.2(i) and Drawings-	Description: In the price schedule, the number of outdoor gantry foundations for the 132 kV switchyard is mentioned as 27. But in the layout drawing	29 nos of Gantry foundation for main bus and jack bus and 1 no of blast wall considering three future 132 kV feeders. Please see addendum-1.	Y

	Volume 2 of 3	Paikgacha 132/33kV Substation Layout	there are 29 gantries shown for the 132 kV switchyard, considering three future 132 kV feeders. Bidder's Query: Please confirm the number of gantry foundations needed for the 132 kV switchyard, considering the four future feeders as mentioned in Schedule A, and revise the price schedule accordingly if required.		
58	Volume 1 of 3 and Volume 2 of 3	Price Schedule, Schedule-4, Line item: 2K.2(i) and Drawings- Mathbaria 132/33kV Substation Layout	Description: In the price schedule, the number of outdoor gantry foundations for the 132 kV switchyard is mentioned as 27. But in the layout drawing there are 36 gantries shown for the 132 kV switchyard, considering five future 132 kV feeders, which seems to be okay. Bidder's Query: Please confirm the number of gantry foundations needed for the 132 kV switchyard, considering the four future feeders as mentioned in Schedule A, and revise the price schedule accordingly if required.	29 nos of Gantry foundation for main bus and jack bus and 1 no of blast wall considering three future 132 kV feeders. Please see addendum-1.	Y
59	Volume 1 of 3 and Volume 2 of 3	Price Schedule, Schedule-1&2&4, Line item: 3C.14.C(ix) and Drawings- Sathkhira 132/33kV AIS Substation Layout	Description: In the price schedule, the number of support structures for post-type support insulators for bus support & equipment bus for the 132 kV switchyard is mentioned as 18 & 8, respectively. But in the layout drawing the post insulator quantity isn't in line with the price schedule mentioned quantity. Bidder's Query: Please confirm the number of support structures for post-type support insulators for	The revised number of support structures for post-type support insulators for bus support & equipment bus for the 132 kV switchyard is 18 & 10, respectively. Please see addendum-1 for revised layout.	Y

			bus support & equipment bus for the 132 kV switchyard, and revise the price schedule accordingly if required.		
60	General Query		Original Clause: BAY EXTENSION OF SHATKHIRA 132/33 KV AIS SUBSTATION Description of questions: Please provide the existing RTU Manufacturer & Model information.	Existing RTU: MiCOM C264, Manufacturer: GE (Former AREVA)	N
61	General Query		Original Clause: BAY EXTENSION OF BHANDARIA 132/33 KV AIS SUBSTATION Description of questions: Please provide the existing RTU Manufacturer & Model information.	Existing RTU: MiCOM C264, Manufacturer: GE (Former AREVA)	N
62	General Query		Original Clause: General Query Description of questions: Please provide length information of Paikgacha to Satkhira Line considering whether Line differential relay is required or not.	Line length 29.82km	N
63	General Query		Original Clause: General Query Description of questions: Please provide length information of Mathbaria to Bhandaria Line considering whether Line differential relay is required or not.	Line length 31.5km	N
64	Volume 2 of 3	Layout drawings for PAIKGACHA 132/33KV AIS, MATHBARIA 132/33KV AIS SS	33kV control building is not in the scope of work, please confirm.	Your understanding is correct.	N

65	Volume 2 of 3		The fill height of this project is considerable. According to the slope protection method specified in the tender documents, the required area for slope protection is relatively large. The tender documents do not clarify whether there is sufficient land between the enclosure wall and the site boundary line for slope formation. Please clarify: Is there adequate land area outside the project's enclosure wall for designing slope protection? If so, please confirm the distance between the enclosure wall and the boundary line. If not, please clarify whether a retaining wall needs to be constructed, and provide the bill of quantities for the retaining wall.	The sloped area should be within property line. The slope between Enclosure wall (Boundary wall) and boundary line (property Line) is specified in Price Schedule 4. That's why Retaining Wall will not be required.	N
66			Does this project include firefighting system for transformers including water spray system, water pond/reservoir, pipe network, pump and pump house?	Not included.	N
67	Volume- 1 of 3; Price Schedule - Schedule 1, Schedule 2 & Schedule 4;		In Price schedule there are some discrepancy found regarding the unit price column and Total Price column for following items: 1F1, 1F2, 1F8, 1F10; 2F1, 2F2, 2F8, 2F10; 3F1, 4F1; Specific quantity and units are mentioned against the main item description for all of the above items, however some sub-items are also included against each of the main item for which unit price need to be quoted but the total price column is cross marked (x). Requested to clarify this matter to avoid complexity during price quotation. 1F3, 1F4, 1F5, 1 F6, 1F7, 1F11; 2F3, 2F4,	Yes, there are some discrepancy which was inadvertently remained in the Price schedule. Please find the "Revised Price Schedule incorporating addendum 1" (editable Excel format) uploaded in the Power Grid Website to use for price quotation during bid submission. However, the methodology of price quotation in the provided Price schedule for the items of Control, protection, metering & SAS, DFDR including Tariff metering are described here for clear understanding (Applicable for all relevant price schedule of substation part Schedule-1, schedule-2 & Schedule-4):	N

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			2F5, 2 F6, 2F7, 2F11; 3F2, 4F2; Specific quantity and units are not mentioned against the main item description for all of the above items. However two(2) sub-items are also included against each of the main item for which unit price need to be quoted but the total price column is cross marked (x). Requested to clarify this matter to avoid complexity during price quotation.	Bidders shall quote unit price as well as total price for the main item where quantity and unit mentioned against those main items. However, only unit price is required to be quoted against each sub-items for breakdown purpose only against those items. Separate total price against each sub-item is not required. Bidders shall not require to quote unit price as well as total price for the main item where quantity and unit does not mentioned against those main items. However, unit price as well as total price is required to be quoted against each sub-items under those main items. In case of discrepancy, necessary arithmetic correction shall be applied during bid evaluation.	
68			For the new substations Site preparation & Land development works are deemed to be executed. Please check What is the nature of terrain? Is it leveled or sloping?	Bidder may visit the site for details assesment	N
69			Is the site evenly leveled or any extensive cutting of earth and filling from borrowed earth is involved?	Bidder may visit the site for details assesment	N
70			What is the approximate area of the land needing development ? If any contour map of site is available showing the spot levels, pl obtain.	This will be finalized during execution	N
71			What is the approx. distance of the borrow pit from where borrowed earth will be taken for backfilling? If at all filling is required.	Bidder may visit the site for details assesment	N
72			How much bush cutting is involved?(in sq. mtr.)	Bidder may visit the site for details assesment	N

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73			Is a permanent access road to the substations available? Can we get the information about the main approach road to the substation. (Eg, how far from the main highway or nearby motorable road, whether the access road is wide enough and hard enough to take heavy load of Transformer?	Bidder may visit the site for details assesment	N
74			If the site is an inclined terrain, Is there any slope protection involved?. Is the substation to be constructed at an elevated level? If yes, what is the elevation with respect to the adjacent road level? What kind of slope protection is envisaged, if required?	Bidder may visit the site for details assesment	N
75			Is construction water and construction power available near the substation area?	Bidder may visit the site for details assesment	N
76			What is the type of soil (Eg.Whether Rocky, normal soil, or hard laterite soil etc).	Bidder may visit the site for details assesment	N
77			What is the Soil Bearing Capacity(SBM)-tentative?	Bidder may visit the site for details assesment	N
78			What is soil resistivity value ? -tentative.	Bidder may visit the site for details assesment	N
79			Can we get data on Soil bearing Capacity from Geo-tech investigations if available?	Bidder should investigate the site soil.	N
80			Is there any data on water table at or near the site available?	Bidder should investigate the site soil.	N
81			From where the contractor will get the electricity supply for construction work?	It is the responsibility of the Contractor to arrange electricity from respective utility or any other arrangement by themself during Construction.	N
82			The make and model of the existing Protection relay is required	Bidder may visit the site for details assesment	N
83			The make and model of the existing FOTE system is required	Bidder may visit the site for details assesment	N
84			The distance between Matabaria and Bhandaria ss si required. The same is not provided in the TS	Line length 31.5km	N

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85			The distance between Pakigacha and Satkhira ss si required. The same is not provided in the TS	Line length 29.82km	N
86			The Tender document calls for extension of ACDB and DCDB system but has not provided any drg/SLD. The same is required to estimate the scale of requirement.	Bidder may visit the site for details assesment	N
87			The layout drawing of the existing CR Building for Satkhira and Bhandaria Ss is not given. The same is required to estimate the cable lengths/indor earth strip requirement	Bidder may visit the site for details assesment	N
88			Queries for Civil quantities estimation : -		N
89			In "Switch yard surface level" drawing, kindly confirm the distance between FGL to FFL.	Please see clause no 11.1.4 in Volume 2 of 3 [Substation]	N
90			Quantities of Cutting & Filling is required, kindly confirm or please provide Contour drawing.	Bidder may visit the site for details assesment	N
91			For Solar Panel raft slab, kindly confirm the RCC Grade.	Please see clause no 11.3.26 in Volume 2 of 3 [Substation]	N
92			Kindly confirm the Grade of PCC & RCC for Chain Link Fencing.	Please see clause no 11.3.26 in Volume 2 of 3 [Substation]	N
93			In Tender drawing, Road width is not mentioned, kindly mention the Road width including with its RCC Grade..	Road width specified in price schedule 4 and grade shall be as per contract	N
94			Please confirm about walk way should be considered both side of Road? It is not mention in Road sectional Drawing. Kindly confirm it.	Please see Substation Layout Drawing	N
95			RCC & PCC grade is required for all RCC Structures like CRB, Guard hou, Ansar Barak etc.	Please see clause no 11.3.26 in Volume 2 of 3 [Substation]	N
96			Kindly specify about type of steel Structures either Pipe or Lattice type specially for Equipment supporting structures and Gantry Beam & Column.	please see APPENDIX TO SECTION 12	N
97			Drawings are not available in Tender drawing like - Gantry Tower, Beam and equipment structures, main gate, Cable trench sections,	This drawing in the scope of bidder.	N

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			parking sheds including with its foundation are not available, please provide these drawings for Civil estimation purposes.		
98			Please mention door, window and finishing shedule including with its type for CRB and other buildings.	Please see note no.2 in the CRB tender drawing	N
99			As per Documents Section-6(Personnel Requirments) it is mention "Key Personnel details as determined by the EMP and other safeguard management plans" to field in form EXP-6, but we assume it is for Subcontector only. Please Suggest in which form be have to fill above Mention Personnel Details.	Key Personnel details as determined by the EMP and other safeguard management plans must be submitted using Form EXP-5	N
100			For the new substations Site preparation & Land development works are deemed to be executed. Please check What is the nature of terrain? Is it leveled or sloping?	Bidder may visit the site for details assesment	N
101			Is the site evenly leveled or any extensive cutting of earth and filling from borrowed earth is involved?	Bidder may visit the site for details assesment	N
102			If the site is an inclined terrain, Is there any slope protection involved?. Is the substation to be constructed at an elevated level? If yes, what is the elevation with respect to the adjacent road level? What kind of slope protection is envisaged, if required?	Please see section 11	N
103			Is construction water and construction power available near the substation area?	It is the responsibility of the Contractor to arrange water and electricity from respective utility or any other arrangement by themself during Construction.	N
104			What is the type of soil (Eg.Whether Rocky, normal soil, or hard laterite soil etc).	Bidder may visit the site for details assesment	N
105			What is the Soil Bearing Capacity(SBM)-tentative?	Bidder may visit the site for details assesment	N

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106			Can we get data on Soil bearing Capacity from Geo-tech investigations if available?	Bidder should investigate the site soil.	N
107			Is there any data on water table at or near the site available?	Bidder should investigate the site soil.	N
108			From where the contractor will get the electricity supply for construction work?	It is the responsibility of the Contractor to arrange electricity from respective utility or any other arrangement by themselves during Construction.	N
109			The make and model of the existing Protection relay is required	Bidder may visit the site for details assessment	N
110			The make and model of the existing FOTE system is required	Bidder may visit the site for details assessment	N
111			The distance between Matabaria and Bhandaria ss si required. The same is not provided in the TS	Line length 31.5km	N
112			The distance between Pakigacha and Satkhira ss si required. The same is not provided in the TS	Line length 29.82km	N
113			The Tender document calls for extension of ACDB and DCDB system but has not provided any drg/SLD. The same is required to estimate the scale of requirement.	Bidder may visit the site for details assessment	N
114			The layout drawing of the existing CR Building for Satkhira and Bhandaria Ss is not given. The same is required to estimate the cable lengths/indoor earth strip requirement	Bidder may visit the site for details assessment	N

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