The Power Grid Company of Bangladesh Limited (PGCB)

IFB No. 27.21.0000.101.07.129.19.4935 dated 08 Sep 2019

Design, Supply, Installation, Testing and Commissioning of 400kV outdoor GIS Substation at Bogura (west) &Rahanpur and Upgradation/Extension of Gopalganj and Chapainawabganj (old) Substation on turnkey basis

Contract No. PGCB/ADB/ 3683 /400KV/BOG-RAH-GOP/SS

All comments, queries and requests for clarification, regarding the Tender documents, received from prospective Bidders, and relevant replies and clarifications prepared by PGCB, and associated addendums (if any), are part of Tender documents

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply / Clarification	Add. Y/N
Bogura substation				
1	Vol.2 Clause no. 1.2.1	As per referred clause, Only 400kV & 230kV GIS scope is mentioned for New 400/230/33kV GIS substation at Bogura (W). Please check and update the complete scope of work including auxiliary system, CRP, Civil works etc.	Please refer to item no. 01(a) of addendum 1.	
2	Vol.3 Clause no. 1.1.1 - 420kV Gas Insulated Switchgear (GIS	As per referred clause, "A route survey shall have to be performed by the EPC to confirm that 750MVA three-phase transformer transport to the site is possible using existing roads. Three single-phase bank Auto trans-former is secondary alternative to three-phase transformer if transportation poses a real threat." In this regard, Cost of three-phase trans-former and Three Single-phase bank autotransformer will not be same. Hence please add a separate line item for bidding purpose of the following equipment's in price schedule if three single-phase bank Autotransformer is required during detail engineering: a) Single phase transformer b) Spare single phase transformer (if required)	Please refer to item no 01(b) of addendum 1.	

		c) Auxiliary bus in GIS for auto switching of spare transformer d) Outdoor AIS equipments for Neutral & Delta formation		
3	Vol.3 Drawing no. SLD_Bogura/1.1 - Single line diagram : Bogura 400/230kV SS	As per referred SLD, we understand that one bay in 400kV Bus reactor diameter shall be a spare bay complete with all bay equipment. Please confirm whether bidder's understanding is in order.	Bidder’s understanding is correct. But diameter will conclude only two breaker and associated CT required for Bus Reactor. Please refer to item no. 07 of addendum 01.	
4	Vol.3 Drawing no. 400/230 kV BOGURA Substation - Substation Layout	In the referred drawing, Two overall layout is available for 400/230 kV BOGURA Substation with different 400 & 230kV Line orientation and plot dimension. In this regard, please furnish the actual plot dimension, all plot corner co-ordinates and line orientation of the substation	Option 2 is correct. Please ignore option 1. This is a tentative drawing for tender purpose only. For plot co-ordinate, it is to be note that, land acquisition is in progress and actual co-ordinate along-with land shall be handed over to the contractor during execution. For tentative co-ordinate bidders are requested to contact Project Director office in working days (Sunday-Thursday) within working hours (9:00 am- 5:00 pm BD STD time)."	
5	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A1, 1A2	As per referred price schedule item, voltage level of 420kV GIS equipment is mentioned as 4420kV or 2420kV. We presume that this is a typo error and the same shall be read as 420kV. Please confirm.	Bidder’s understanding is correct. Please see item no. 08 of addendum 01.	
6	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A1 (vi), 1A2 (v), 1A3 (v), 1A4(iii),	As per referred item, rated short circuit current is mentioned as 50kA/3s for three phase line disconnector integral with high speed earth switch. However, for ll other GIS equipment rated short circuit current is mentioned as 63kA/3s. Please check and confirm the actual short circuit current rating for 400kV Disconnector and high speed earth switch.	For 400kV, short circuit current shall be 63kA /3s whereas for 230kV, short circuit current shall be 50kA/3s. Please refer to item no 08 of addendum 01.	
7	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A1 - 420kV GIS diameter including Line & transformer	If PIR is considered for Line bay, then Tie bay shall be provided with PIR+CSD in case of a Line-Tie-ICT diameter. If CSD is considered for Line as well as transformer bays, then only CSD shall be provided for Tie bay. Please confirm.	For Transformer, CSD shall be used. For Long/Compensated (series/ Shunt) Line, CSD alone cannot mitigate Overvoltage due to switching. However, Details shall be finalized as per output of EMTP study.	
8	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A2 - 420kV GIS Diameter (Bays are equipped with line)	As per referred clause, we understand that if 400kV diameter shall comprise of Line-Tie-Line bay, then all three circuit breaker shall be provided with either PIR or CSD. Please confirm	For Long/Compensated (series/ Shunt) Line, CSD alone cannot mitigate Overvoltage due to switching. However, Details shall be finalized as per output of EMTP study.	
9	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A3 - 420kV GIS Diameter for Bus	As per referred clause, We understand that all three circuit breaker of Bus reactor diameter shall be provided with CSD only. Please confirm	Bidder’s understanding is correct. But circuit breaker shall be 2 nos. Please refer to item no. 08 of addendum 01.	

	reactor bay			
10	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A7 & 1A8	As per SLD of Bogura station, quantity of 420kV Capacitor type voltage transformer & Surge arrester shall be 30nos. instead of 27nos. As per SLD, 420kV Capacitor type voltage transformer & Surge arrester is shown for Spare bay of Bus reactor diameter also. In this regard, please confirm whether outdoor AIS equipment are required for spare bay of Bus reactor diameter?	For spare bay of Bus Reactor diameter, CVT & LA are not required. For revised Layout and SLD, please refer to item no.07 & 08 of addendum 01.	
11	Vol.3 Clause no. 1.3.1, New 400/230kV Substation at Bogura (W), Item no. 1B3, (vi) & 1B4 (vi)	As per referred clause, 3 core current transformer is required for 245kV Bus coupler & Bus -section bay. However as per Drawing - 230kV Bus coupler protection scheme, only 2 core protection transformer is shown. Please check and confirm the number of CT cores required in bus-coupler & Bus -section bay.	CT core shall be 3. Please see item no. 02 of addendum 01.	
12	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1Fx - Transformer thermal & through-fault monitoring system	Please clarify the requirement of this line item as this line item is not mentioned under Schedule-A, Clause-1.3.1. If the above item is required, please furnish technical specification for the same.	This item is required. Please refer to item no. 02 & 08 of addendum 01.	
13	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1F- Control, protection, Substation Automation & metering - 400kV Circuit	There is no line item available for 400kV tie bay control, protection & substation automation. Please check and include a separate line item for 400kV tie bay control & protection.	Tie bay control & protection shall be included in the associated line, transformer & BBP protection. BU unit for tie bay shall be included under the BBP protection. Please refer item no. 08 of addendum 01.	
14	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1F- Control, protection, Substation Automation & metering - 400kV Circuit	There is no line item available for control & protection of 400kV spare bay in Bus reactor diameter. In this regard, we understand that control & protection is not required for Spare bay. Please check and confirm whether bidder understanding is in order. If not, please add a separate line item for control, protection & substation automation system for spare bay of Bus reactor Diameter.	Bidder's understanding is correct.	
15	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1F3- 400kV Bus bar protection	Bay units quantity shall be 10set. instead of 8set. based on 5# 400kV diameter. Please check and confirm	Bay unit quantity shall be 9 sets. Please refer to item no. 08 of addendum 01.	
16	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1F8- Bus bar protection - b(i)	Quantity of bay units for 230kV busbar protection shall be 14 set instead of 12 sets as follow: a) 230kV Line bays -8nos.	The understanding is correct. But one new for transformer and two new bays for line shall be added. Bay units shall be 17. Please refer to item no. 02 &	

		b) Transformer bays -2nos. c) Bus-coupler bay - 2 nos. d) Bus-section bay - 2nos. Please check and confirm whether Bidder's understanding is in order.	08 of addendum 01.	
17	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1F13- Substation automation system - i - BCU	There is no line item available for BCU for auxiliary system. Please check and add a separate line item for the same	The question is not clear. However, BCU for 33kV system is included whereas BCU for 440V system is not required.	
18	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1G1 -Travelling wave type Digital Fault & Disturbance Recorder - Sl no. ii (a)	Digital & Analog data acquisition system for 400kV circuit shall be 9set instead of 8set considering bus reactor bay. Please check and clarify.	One transformer bay will be added and one line bay will be deleted. Still the requirement is 9 nos. Please see the item no. 08 of addendum 01.	
19	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1G1 -Travelling wave type Digital Fault & Disturbance Recorder - Sl no. ii (a)	Digital & Analog data acquisition system for 230kV circuit shall be 14set instead of 16set, as only 14 nos. of 230kV bays are in present scope.	Three new bays are added in 230kV portion. Please see the item no. 08 of addendum 01.	
20	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1N3	Please furnish the specification of solar system (1kW solar panel) including 12V VRLA maintenance free battery and other accessories for Substation emergency DC Lighting, as the same is not available in Vol.2	As per tender.	
21	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A1 (vi)	As per referred item, line disconnector integral with high speed earth switch shall be provided. However, line side disconnector quantity is already included in item no. 1A1 (iv). So we presume that item no. 1A1 (vi) is only for high speed earth switch. Please confirm whether bidder's understanding is in order.	The understanding is correct. Please see the item no 08 of addendum 01.	
22	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A1 (vii)	As per referred item, current transformer quantity is mentioned as 6 nos. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1A1 (vii), Current transformer quantity is mentioned as 12nos. Please check and confirm the actual quantity of current transformer.	Total CT quantity for one diameter shall be 18 nos. Please see the item no. 08 of addendum 01.	
23	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A1 (viii)	As per referred item, current transformer quantity is mentioned as 12 nos. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1A1 (vii), Current transformer quantity is mentioned as 6nos. Please	Total CT quantity for one diameter shall be 18 nos. Please see the item no. 08 of addendum 01.	

		check and confirm the actual quantity of current transformer.		
24	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A1 (ix), 1A2 (ix) & 1A3 (ix)	From the referred line item, we understand that 420kV gas insulated line is a unit rate item.However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1A1 (ix) - the quantity for 420kV gas insulated line is mentioned as 1Lot.As Bidder need to quote based on Schedule-B1, we presume that 420kV gas insulated line shall be operated as a unit rate item during detail engineering based on actual quantity. Also, please add a separate line item for GIS to AIR bushing. Please check and amend the Schedule A & B1 as required.	The GIL price shall in unit price. Please see the item no. 02 & 08 of addendum 01.	
25	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A2 (vi) & (vii)	As per referred item, 4 core current transformer is mentioned. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1A2 (vi) & (vii) - 5 core Current transformer is mentioned. Please check and confirm the number of CT cores required.	Current Transformer shall 5 core type. Please see the item no. 08 of addendum 01.	
26	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A3 (iii) & (iv)	As per referred item, Quantity of 3-phase busbardisconnecter& three position earth switch is mentioned as 6 sets. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1A3 (iii) & (iv) - Quantity of 3-phase busbardisconnecter& three position earth switch is mentioned as 8 sets.As above both clauses are contradicting, please check and confirm the actual quantity.	Please see the item no. 02 & item no. 08 of addendum 01.	
27	Vol.3 Schedule A: clause no. 1.3.1, item no. 1A3 (viii)	As per referred clause, 6 nos. of 1-phase voltage transformer shall be provided for bus reactor diameter. However, the same is not mentioned in the Schedule B1, Item no. 1A3 and SLD. As per SLD, AIS type CVT shall be provided.Please check and confirm the requirement of GIS type voltage ransformer for Bus reactor diameter.	AIS CVT shall be used. Please see the item no. 02 & 08 of addendum 01.	
28	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1A4 (ii)	As per referred item, quantity of single phase, 3-core voltage transformer shall be 3 nos. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1A4 (ii), quantity of single phase, 3-core voltage transformer shall be 6 nos.Please check and confirm the actual requirement.	The bidder requested to follow piece schedule. Please see the item no. 08 of addendum 01.	
29	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no.	As per referred item, quantity of three phase, three position high speed earth switch shall be 1 no. How-	The bidder is requested to follow price schedule. Please see the item no. 08 of addendum 01.	

	1A4 (iii)	ever, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1A4 (ii), quantity of three phase, three position high speed earth switch shall be 2 nos. Please check and confirm the actual requirement.		
30	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1B2 (ii)	As per referred clause, Quantity of 245kV, 3150A, 50kA/3s, three phase, single pole operation circuit breaker complete with spring-stored energy operating mechanism shall be 2 sets. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1B2 (ii), 245kV, 3150A, 50kA/3s, three phase, gang operation circuit breaker complete with spring-stored energy operating mechanism shall be 1 set.Please check and confirm the quantity of circuit breaker and type of circuit breaker operation i.e. - Single pole operated or gang operated.	Quantity shall be 01 set. Please refer to item no. 08 & 02 of addendum 01.	
31	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1B2 (iv)	As per referred clause, Quantity of 245kV, 50kA/3s, three phase, three position earth switch complete with motor operating mechanism at both sides of CB is mentioned as 1 set. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1B2 (iv), Quantity of 245kV, 50kA/3s, three phase, three position earth switch complete with motor operating mechanism at both sides of CB is mentioned as 2 sets.Please check and confirm the actual quantity.	Please refer to item no. 02 & 08 of addendum 01.	
32	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1B2 (v)	As per referred clause, quantity of 245kV, 3150A, 50kA/3s, three phase line disconnector, make proof, complete with motor operating mechanism is mentioned as 3nos. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1B2 (v), 245kV, 3150A, 50kA/3s, three phase line disconnector complete with motor operating mechanism is mentioned as 1 set.We presume that 1 set of 3-phase, transformer side disconnecter shall be provided. No high speed earth switch is required for 245kV transformer bay.Please check and confirm the whether bidder understanding is in order and accordingly amend the Schedule A & B1.	Bidder understanding is correct. Please refer to item no. 02 & 08 of addendum 01	
33	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1B1 (x), 1B2 (ix)	As per referred item, Unit rate line item is mentioned for 245kV gas insulated line. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1B1 (x) - the quantity of 245kV gas insulated	The GIL price shall in unit price. Please refer to item no. 02 & 08 of addendum 01	

		line is mentioned as 1Lot.In this regard, we presume that 245kV gas insulated line shall be paid as unit rate item during detail engineering based on actual quantity. Also, please add a separate line item for GIS to AIR bushing. Please check and amend the Schedule A & B1 as required.		
34	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1B3 (ii)	As per referred item, quantity of 245kV, 4000A, 50kA/3s, three phase, gang pole operation circuit breaker complete with spring-stored energy operating mechanism is mentioned as 2 set for Bus coupler bay. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1B3 (ii), Quantity of 245kV, 4000A, 50kA/3s, three phase, gang pole operation circuit breaker complete with spring-stored energy operating mechanism is mentioned as 1 set. Please check and make suitable amendments to the Bidding documents.	Please refer to item no. 02 & 08 of addendum 01	
35	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1B3 (iv)	As per referred clause, Quantity of 245kV, 50kA/3s, three phase, three position earth switch complete with motor operating mechanism, on either side of circuit breaker is mentioned as 3 nos. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1B3 (iv), 245kV, 4000A, 50kA/3s, three phase, three position earth switch complete with motor operating mechanism, on either side of circuit breaker is mentioned as 2 sets. Please check and make suitable amendments to the Bidding documents.	Please refer to item no. 02 & 08 of addendum 01.	
36	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1B3 (v) & (vi)	As per referred clause, 2-core current transformer is mentioned. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1B3 (v) & (vi), 3 core current transformer is mentioned.Please check and confirm the number of CT cores for 230kV bus-coupler bay	Please refer to item no. 02 & 08 of addendum 01	
37	Vol.3 Schedule A: clause no. 1.3.1, item no. 1B4 (ii)	As per referred clause, 245kV circuit breaker shall be provided with CSD for Bus section bay. However, there is no such requirement mentioned in the line item description of Schedule B1, item no. 1B4(ii).Please check and confirm the requirement of CSD for 245kV circuit breaker.	CSD not required for 245kV system. Please refer to item no. 02 & 08 of addendum 01	

Approved by ______________________________

38	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1B4 (iv)	As per referred clause, Quantity of 245kV, 50kA/3s, three phase earth switch complete with motor operating mechanism, one (1) on either side of circuit breaker is mentioned as 1set. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1B4 (iv), 245kV, 50kA/3s, three phase earth switch complete with motor operating mechanism, on either side of circuit breaker is mentioned as 2sets. Please check and confirm the actual requirement	Please refer to item no. 02 & 08 of addendum 01	
39	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1B5 (iii)	As per referred clause, Quantity of 245kV, 50kA/3s, three pole, three position, make proof type earth switches complete with motor operating Mechanism is mentioned as 6 nos. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1B5 (iii), Quantity of 245kV, 50kA/3s, three pole, three position, make proof type earth switches complete with motor operating Mechanism is mentioned as 2 sets.Please check and confirm the actual quantity.	Please refer to item no. 02 & 08 of addendum 01	
40	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1D1	As per referred item, Rated short circuit current is mentioned as 31.5kA/1sec for 33kV AIS equipment However, as per vol.2, clause no.1.5.1, rated symmetrical short-circuit current for 33kV system is mentioned as 31.5kA/3sec.As above both the clauses are contradicting, please check and confirm the actual duration (1sec or 3sec) of short circuit current for 33kV system.	For AIS, Short circuit level shall be 31.5kV/1 sec whereas for GIS, Short circuit level shall be 31.5kV/3 sec.	
41	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1D3	As per referred clause, 3 secondary winding is mentioned for 33kV current transformer. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1D3, 4-secondary winding is mentioned.Please check and confirm the actual no. of secondary windings for 33kV current transformer.Further, different CT ratios are mentioned in Schedule A & B1. Please check and confirm the actual CT ratio to be followed.	CT secondary shall be 4 core. Please refer to item no. 08 of addendum 01	
42	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1D6	As per referred clause, 36kV XLPE cable for Tertiary side connection from power transformer shall be quoted in the referred Lot item. But, separate unit rate line item 1H1 is available for the same.We presume that unit rate for 36kV XLPE cable shall be quoted in the line item no 1H1. The line item 1D6 is not related to 36kV XLPE cable.	Bidder understand is correct.	

		Please confirm whether Bidder's understanding is in order.		
43	Vol.3 Schedule A: clause no. 1.3.1, item no. 1F3 (b)	We understand from the referred clause that 2Nos. of central units & 1no. bay unit for each 400kV Main bay shall be provided. Please confirm whether Bidder's understanding is in order.	Please refer to item no 08 of addendum 01	
44	Vol.3 Schedule A: clause no. 1.3.1, item no. 1F3 (b)	In the referred clause, quantity is not mentioned for Busbar protection main relay. Please check and amend the clause suitably	Please refer to item no.08 of addendum 01	
45	Vol.3 Schedule A: clause no. 1.3.1, item no. 1F6	As per referred clause, 230kV circuits for Control, Monitoring, Protection & Substation Automation System including event recording function shall be provided for two (2) sets of 400/230/33kV, three phase, power transformer circuits.However, there is no such line item available in Schedule B1. Please check and add a separate line item in schedule B1.	Please refer to item no. 02 & 08 of addendum 01	
46	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1F6 (b)	As per referred item, 2 sets of Protection main relays shall be provided for 245kV Bus coupler circuit.However, as per drawing no. PSLD_BOG_230_Bus Coupler/5.8, Only one main protection relay is indicated.Please check and amend the Schedule -B1 accordingly.	Please refer to item no.08 of addendum 01	
47	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1F7	As per referred item, Quantity of Control, Protection, monitoring & SAS function for Bus section circuits is mentioned as 1 set only. However, as per scope of work, 2 no's of 245kV Bus section shall be envisaged. Please check and amend the Schedule -A & B1 accordingly.	Please refer to item no. 02 & 08 of addendum 01	
48	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1F7	As per referred item, 2 sets of Protection main relays shall be provided for 245kV Bus coupler circuit.However, as per drawing no. PSLD_BOG_230_Bus Scdtion/5.9, Only one main protection relay is indicated.Please check and amend the Schedule -B1 accordingly.	Please refer to item no. 08 of addendum 01.	
49	Vol.3 Schedule A: clause no. 1.3.1, item no. 1F8	We understand from the referred clause that 1No. of central unit & 1no. bay unit for each 230kV Main bay shall be provided.Please confirm whether Bidder's understanding is in order.	Bidder’s understanding is correct for Busbar Protection.	

50	Vol.3 Schedule A: clause no. 1.1.1 - NEW 400/230kV OUTDOOR GIS SUBSTATION AT BOGURA (WEST) - Digital Fault & Disturbance Recorder (DFDR),	As per referred clause, The fault locating technology of the DFDR to be supplied for 400kV voltage level shall be Travelling wave technology and for 230kV & below the technology shall be typical. In this regard, please the meaning of typical. However, as per vol.3, schedule-B1, Item no. 1G1, travelling wave type DFDR is mentioned for all 400kV circuit, 245kV circuit & 33kV circuits.Please check and clarify	DFDR shall be travelling wave type for 400/230kV or 400/132kV substation. However, when there will be no 400kV level involved, the DFDR shall be typical impedance type. Please refer to item no. 08 addendum No. 01.	
51	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1G1 -Travelling wave type Digital Fault & Disturbance Recorder	As per referred item, DFDR shall be provided for 33kV circuit also. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1G1, DFDR shall be provided only for 420kV GIS, 245kV GIS and Bus reactor.Please check and confirm the requirement of DFDR for 33kV circuits & 400kV tie bays	Please refer to item no.08 of addendum 01	
52	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1G1 -Travelling wave type Digital Fault & Disturbance Recorder -	As per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1G1, DFDR shall be provided Bus reactor also. However, as per referred item, Only 8 sets is mentioned for 400kV circuits. But, total 5 nos. of Diameter is in present scope for 400kV. Please check and update the quantity of DFDR for 400kV circuits.	Please refer to item no.08 of addendum 01	
53	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1O5 (i)	As per referred clause, we understand that PLC equipment is required only for local end. We are not envisaging PLC at remote end station.Please confirm whether bidder's understanding is in order. If any remote end PLC is to be considered, please inform the remote end stations where PLC is to be supplied.	Remote end PLC equipment is not required.	
54	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1.IIIA2	As per referred clause, Quantity of 420 kV, 125MVAR (only for Bid purpose, the final size shall be as per the EMTP study) ONAN, three phase outdoor type Bus Reactor is mentioned as 1set. However, as per vol.3, schedule-B1, Item no. 1.IIIA2, 4 set is mentioned for 420kV 125MVAR reactor. We understand that this is a typo error & the quantity shall be 1set	Bidder understand is correct. Please see item no. 08 of addendum 01.	
55	Vol.3 Schedule A: clause no. 1.1.1 - NEW 400/230kV OUTDOOR GIS SUBSTATION AT BOGURA (WEST) - DC and LVAC System:	As per referred clause, 25% spare capacity shall be provided for 110V DC battery & battery charger, 48 V DC battery & battery charger. However, as per vol.3, schedule-A, Clause no. 1.3.1, item no. 1K1- Battery shall be sized for present & future scope. In this regard, we presume that Battery & charger shall be sized for present & future scope & no addi-	Spare capacity shall be 25%. Please refer to item no. 02 of addendum 01.	

		tional spare capacity is required. Please confirm		
56	Vol.3 Schedule A: clause no. 1.1.1 - NEW 400/230kV OUTDOOR GIS SUBSTATION AT BOGURA (WEST) - DC and LVAC System:	As per referred clause, 25% spare feeder shall be provided for DC distribution board and LVAC distribution board. However, as per vol.3, schedule-A, Clause no. 1.3.1, item no. 1K1, 1K2 & 1K3, 50% spare feeder shall be provided for future use. In this regard, Please check and confirm the spare feeder requirement.	25% spare feeder shall be provided. Please refer to item no. 02 of addendum 01.	
57	Vol.3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1M3 (b)	As per referred clause, 1 no .of switchyard panel room shall be provided for each 400kV & 230kV system.However, as per tender layout, two switchyard panel rooms are shown for each 400kV & 230kV level. In this regard, we shall envisaged 1 no. of switchyard panel room for each 400kV & 230kV level which will be sized only for present scope. Please confirm whether bidder understanding is in order.	Panel with and and without battery room is required for both 230kV and 400kV. Please refer to item no. 08 of addendum 01.	
58	Vol.3 Schedule A: clause no. 1.3.1, item no. 1P1	As per referred clause, we understand that "All necessary modification works in the software of master station of NLDC at Rampura&BiddyutBhaban are to be carried out." No hardware shall be supplied. Please confirm.	Bidder's understanding is correct.	
59	Volume II, Clause 1.2.1	In scope of works , it is mentioned to provide GIS hall for both 420KV and 230KV system. However, layout drawing shows that the GIS is outdoor type. Please confirm whether we need to consider indoor GIS or outdoor GIS.	GIS hall is not required as the GIS shall be outdoor type. Please see the item no. 01 of addendum 01.	
60	Volume II, Clause 1.2.1	In case it is indoor GIS, Please confirm GIS hall must be PEB or RCC ??	GIS shall be outdoor type.	
61	Volume II, General	Soil resistivity data of the proposed switchyard is not given in the document. Please provide the same.	Bidder is requested to visit site and measure tentative soil resistivity for bidding purpose.	
62	Volume II, General	Standard control room building plan and elevation is not attached with the tender document. Please provide the same.	Pleased see the item no. 07 of addendum 01.	
63	Volume II, General	We understand that the size of SPR room shall be changed as per requirement. Please confirm.	Bidder understand is correct.	
64	Volume III, Schedule B1 - 1D	Please confirm that 33KV switchgear to be placed inside control room.	Not confirmed.	
65	Volume III, Schedule B1 - 1.III.A	We understand that EMTP study to be done only for Bus reactor sizing and insulation coordination. Please	Please see item no. 1.III.A1, Schedule A, Vol III.	

		confirm.		
66	400 kV GIS	Line item 1A1 (i) - Current rating 5000A but line item 1A1 (¡¡) current rating 4000A. Please clarify.	5000A for Bus and 4000A for line.	
67	400 kV GIS	Line item 1A1 (i) - Current rating 5000A but line item 1A1 (¡¡) current rating 4000A. Please clarify.	Correct. 5000A for Bus and 4000A for line.	
68	400 kV GIS	Line item 1A2 (vi) - In price schedule current transformer is in 4-core but in SLD current transformer is in 5-core. Please clarify.	Current Transformer shall be 5-core type. Please refer to item no. 02 & 08 of addendum 01	
69	400 kV GIS	Line item 1A3 (iii) - 420kV, 4000A, 63kA/3s, three phase busbar disconnector complete with motor operating mechanism require 06 Nos. but as per SLD it is 08. Please clarify	Please refer to item no. 08 of addendum 01	
70	400 kV GIS	Line item 1A3 (v) - 420kV, 4000A, 50kA/3s three phase high-speed earth switch complete with motor operating mechanism require 02 set but as per SLD it is 01. Please clarify.	Please refer to item no. 02 & 08 of addendum 01	
71	400 kV GIS	Line item 1A3 (v) - 50kA/3s or 63kA/3s. Please clarify.	63kA/3s. Please refer to item no.08 of addendum 01	
72	400 kV GIS	Line item 1A9–As per price schedule single-phasewave trap are 12 Nos but required Nos are 18. Please clarify.	Total 05 (five) nos. lines are required. So, wave trap shall be 10 nos. Please see the item no. --- of addendum 01.	
73	230 kV GIS	The equipment current rating of SLD and price schedule differs from each other. Which should we use as reference?	Price schedule.	
74	230 kV GIS	Line item 1B2 (ii) -As per price schedule CB are 02 set but from SLD set 01. Please clarify which one is correct.	Please see the item no. 08 of addendum 01.	
75	230 kV GIS	Line item 1B2 (iv) - As per price schedule ES is 01 set but as per SLD it is 02 set. Please clarify.	Please see the item no. 08 of addendum 01.	
76	230 kV GIS	Line item 1B2 (v) -As per price schedule unit of ES is referred as Nos, but we think thatit should be set and as per SLD it should be 02 set,but in price schedule it is mentioned as 3 Nos. Please clarify	Please see the item no. 08 of addendum 01.	
77	230 kV GIS	Line item 1B3 (ii) - As per price schedule CB are 02 set but as per SLD it is 01. Which one is correct?	Please see the item no. 08 of addendum 01.	
78	230 kV GIS	Line item 1B3 (iv) and (v) -From SLD we have found 02 set of DS with ES and 02 setES, But in Price schedule it is mentioned as 3 Nos ES only.Kindly	Please see the item no.08 of addendum 01.	

		confirm		
79	230 kV GIS	Line item 1B4 (iv) - As per price schedule ES is 01 but as per SLD it is 02. Please clarify	Please see the item no. 08 of addendum 01.	
80	230 kV GIS	Line item 1D2 - As per price schedule DS with ES is 04 set but as per SLD it is 02 set. Which one is correct?	Price schedule will prevail. Please see the item no. 07 of addendum 01.	
81	230 kV GIS	Line item 1M3 (b) As per price schedule SPR for 400kV and 230kV is 02 but as per SLD SPR for 230kV is 02 and SPR for 400kV is 01. Kindly clarify.	Please see the item no. 08 of addendum 01.	
82	230 kV GIS	Line item 1O5 (ii) - As per price schedule line matching unit is 12 Nos but as per SLD it is 18 Nos. Please clarify.	Shall be 10 no. Please see the item no. 08 of addendum 01.	
83	Vol 2, Scope of Work, Clause 1.2.1 Proposed Bogra 400/230 kV Substation shall be located in the --- thana of Bogra	Bidder requests PGCB to provide Site cordinates for Bogra site through offical communication as bidder need the same for collecting site details to estimate the Land Development /Soil resistivity/ Layout preparation etc	Kahaloo thana. Please see the item no. 01 & 02 of addendum 01.	
84	Vol 2, Scope of Work, Clause 1.2.1 Proposed Bogra 400/230 kV Substation shall be located in the --- thana of Bogra	Bidder is requesting PGCB to specify the Load Bearing capacity of soil as they have failed to perform soil testing at sites (Bogura & Rahanpur) because of local agitation by villagers.	For site visit, bidder is requested to contact with project director office. Load bearing capacity shall be performed after land filling and shall be finalized after award of contract.	
85	Vol 2, Scope of Work, Clause 1.2.1 Proposed Bogra 400/230 kV Substation shall be located in the --- thana of Bogra	Bidder understands that the land for proposed Bogra substation is already acquired and under PGCB possession.Kindly confirm	Land acquisition is under processing. Kahaloo thana.	
86	Drawing: SLD_Bogura_OP1/1.1	Tender drawings consists of 2 layouts for Bogura Substation. Bidder requests PGCB to confirm which one to be followed. Kindly confirm.	Please to ignore option 1. Follow option 2.	
87	Volume 2, 1. Scope of Works, Page No.-4 & 5	Scope of work mentions requirement of space provision only for future bays of 400KV & 230kV.Bidder understands that only space provision to be considered for future bays & No Earthing, Lighting etc works to be done for future bays.Kindly confirm.	Bidder understanding is correct.	

88	Volume 2, 1. Scope of Works, Page No.- 5 The configuration of the 420kV busbar shall be one & Half Breaker busbar scheme. Jointing plugs/Adapter shall be kept in GIS hall for adding future bays and jointing plugs required for connecting GIS of different makes.	Bidder understands that 400kV & 220kV GIS is Outdoor type & hence GIS hall mentioned in mentioned clause & at other places is a typo graphical error.Kindly Confirm.	Confirmed. Please see the item no. 01 of addendum 01.	
89	Volume 2, 1. Scope of Works, Page No.- 5 AND Price Schedule:New 400/230 kV Substation at Bogura (W)	As mentioned in Scope of works, Auto Transformer requirement is 400/230/33kV transformers while in Price Schedule Transformer requirement is 400/230/34.5kV transformers.As per our understanding, the rating mentioned in Price schedule for 400/235/34.5 kV, 520/750 MVA (ONAN/ONAF), three phase outdoor type auto transformer needs to be considered. Kindly confirm.	400/235/34.5kV, 520/750 MVA	
90	Vol 2, Scope of Work, Clause 1.2.1 420kV GIS : Space provision for future bays	We presume that space provision for 3 dias (considering 2 line bays,1 reactor bay, 2 transformer bay, 1 spare bay and 3 tie bays) needs to be considered (future bays) as per one & a half breaker scheme. Kindly confirm.	As per tender.	
91	Vol 2, Scope of Work, Clause 1.2.1 420kV GIS : one & half breaker scheme	Bidder understands that based on Line bays & Transformer location bidder can customize the layout of the GIS. Kindly confirm.	Bidding layout is tentative and tender purpose only. Actual layout shall be finalized during execution.	
92	Vol 2, Scope of Work, Clause 1.2.1 230kV GIS : 8 line bays in present scope	As per the proposed layout, only 4 nos. of line bays have been shown, whereas as per the mentioned clause, 8 nos. of line bays are in present scope.Please confirm.	As per tender	
93	Price Schedule - Item 1A1(vi) SLD_BOGURA/1.1	As per the mentioned item no. of the price schedule, disconnector with high speed earthing switch is required. Whereas, as per SLD , HSES only is required.Please clarify.	HSES means High Speed Earthing Switch	

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94	Price Schedule - Item 1A2(vi & vii) SLD_BOGURA/1.1	As per the mentioned item no. of the price schedule, CT with 4 cores is required. However, 5 core CT is mentioned in SLD.Please clarify.	CT core shall be 5. Please see the item no. 08 of addendum 01.	
95	Price Schedule - Item 1A3(iii) SLD_BOGURA/1.1	As per the mentioned item no. of the price schedule, 6 nos. disconnectors are required. Whereas, as per SLD 8 nos. of disconnectors are shown.Please clari-fy.	Please see the item no. 08 of addendum 01.	
96	Price Schedule - Item 1A3(v) SLD_BOGURA/1.1	As per the mentioned item no. of the price schedule,2 sets of high speed earthing switch is required. Whereas, as per SLD, 1 set is required.Please clarify.	Please see the item no. 08 of addendum 01.	
97	Price Schedule - Item 1A7 SLD_BOGURA/1.1	As per the mentioned item no. of the price sched-ule,27 nos. of AIS type CVTs are required. However, in SLD, 30 nos. of CVTs are required.Please clarify.	Please see the item no. 08 of addendum 01.	
98	Price Schedule - Item 1A12	Please provide standard gantry column, beam and equipment structure drawings.	Please see item no. 07 of addendum 01.	
99	Price Schedule - Item 1B1 (iii) SLD_BOGURA/1.1	As per the mentioned item no. of the price schedule, disconnector rating required is 3150A. However, in SLD following rating disconnectors have been men-tioned - 2500A, 3000A, 4000A.Please clarify.	Price schedule will prevail. Please see the item no. 07 of addendum 01.	
100	Price Schedule - Item 1B2 (ii) SLD_BOGURA/1.1	As per the mentioned item no. of the price schedule, 2 sets of circuit breaker per bay is required. However, as per SLD, only 1 no. of CB per bay is men-tioned.Please clarify.	Please see the item no. 08 of addendum 01.	
101	Price Schedule - Item 1B2 (vi & vii) SLD_BOGURA/1.1	As per the mentioned item no. of the price schedule, CT with 4000A current rating is required. However, as per SLD, 3000A CT is mentioned.Please clarify.	Highest rating 4000/1A is required. Please see the item no. 02 of addendum 01.	
102	Price Schedule - Item 1B3 (ii) SLD_BOGURA/1.1	As per the mentioned item no. of the price schedule, 2 sets of circuit breaker per bay is required. However, as per SLD, only 1 no. of CB per bay is men-tioned.Please clarify.	Please see the item no. 08 of addendum 01.	
103	Price Schedule - Item 1B3 (iv) SLD_BOGURA/1.1	As per the mentioned item no. of the price schedule, 3 nos. of 3 position earth switch is required. However,	Please refer to item no. 02 & 08 of addendum 01.	

		as per tender SLD 6 nos. or 2 sets of 3 position earth switch is required.Please clarify.		
104	Price Schedule - Item 1B4 (iv) SLD_BOGURA/1.1	As per the mentioned item no. of the price schedule, 1 set of 3 position earth switch is required. However, as per tender SLD 2 sets of 3 position earth switch is required. Please clarify	Please refer to item no. 07 & 08 of addendum 01	
105	Price Schedule - Item 1B6	We presume that the line item as per the mentioned clause is for AIS type 230kV LA. Please confirm.	LA shall be AIS type.	
106	Price Schedule - Item 1B9	Please provide standard gantry column, beam and equipment structure drawings.	Please see the item no. 07 of addendum 01.	
107		Please provide standard drawings for fire fighting pump house (FFPH) & water tank.		
108	Price Schedule - Item 1M3 Layout	As per the mentioned clause of price schedule, 2 nos. of switchyard panel rooms for 400kV & 230kV GIS is required. However, as per the proposed layout 01 No. SPR for 400kV GIS and 02 Nos. SPR for 230kV have been shown. Please clarify.	Please see the item no. 08 of addendum 01.	
109		Please provide standard drawings for control room building & switchyard panel room required for 400kV & 230kV GIS.	Please see the item no. 07of addendum 01.	
110	Price Schedule - Item 1D4 SLD_BOGURA/1.1	As per the mentioned item no. of the price schedule, 4 sets of disconnector is required. However, as per tender SLD only 2 nos. have been shown, Please clarify.	Please refer to item no. 07 of addendum 01	
111	Vol 2, Scope of Work, Clause 1.6 ambient temperature	As per the mentioned clause of scope of works, maximum ambient shade temperature is mentioned as 45deg C. Kindly confirm the same for outdoor GIS also.	Ambient temperature shall be 40°C.	
Rahanpur (Chapainawabganj) Substation				

112	Vol.2 Clause-1.2.2	As per referred clause, Double busbar with bypass isolator scheme is proposed for 400kV GIS. However, in the SLD, only double bus scheme is shown. Please check and clarify the type of bus scheme to be followed for 400kV Rahanpur	There shall be no bypass isolator of 400kV Busbar, please refer to item no. 03 of Addendum No.01.	Y
122	Vol.3 Schedule B1: New 400/132kV Substation at Rahanpur (Chapainawabganj), Item no. 2A1 (ii)	As per referred clause, we understand that 400kV line bay circuit breaker can be provided with either CSD or PIR for phase switching control device. Please confirm whether bidder understanding is in order.	For Long/Compensated (series/ Shunt) Line, CSD alone cannot mitigate Overvoltage due to switching. However, Details shall be finalized as per output of EMTP study.	
123	Vol.3 Schedule B1: New 400/132kV Substation at Rahanpur (Chapainawabganj), Item no. 2A3 - 420kV Bus coupler bays	As per referred item of price schedule, Quantity of 420kV Bus coupler is mentioned as 2 set. However, as per vol.2, clause no. 1.2.2, Page no. 6, only 1 no. of 420kV bus coupler bay is mentioned. Please check and confirm the number of bus coupler bay	There shall be no bus section in 400kV Bus, hence, no. of bus-coupler shall be 01 set. Please, refer to item no. 03 , 07 & 08 of Addendum no. 01.	Y
124	Vol.3 Schedule B1: New 400/132kV Substation at Rahanpur (Chapainawabganj), Item no. 2A5 - 420kV Bus section bays	As per referred item of price schedule, Quantity of 420kV Bus section bay is mentioned as 2 set. However, as per vol.2, clause no. 1.2.2, Page no. 6, bus section bay is not mentioned. Please check and amend the scope of works suitably	There shall be no bus section in 400kV Bus. Please, refer to item no. 03 , 07 & 08 of Addendum no. 01.	Y
125	Vol.3 Drawing no. SLD_Rahanpur/2.1 - Single line diagram : Rahanpur	As per referred SLD, 5 nos. of 400kV line bays are indicated as follow; a) Bogra-1 b) Bogra -2 c) Unknown -1 d) Unknown-2 e) Furnished bay However, as per price schedule, Only 4 nos. of 400kV line bays are mentioned. Please check and confirm the number of 400kV line bays.	It is confirmed that no. of 400kV Line circuit bay for Rahanpur Substation is 04.	
126	Vol.3 Drawing no. Layout_400kV_Rahanpur/2.2	Please furnish the plot dimension & plot co-ordinate for Rahanpur station.	For Plot dimension i.e bidders are advised to go-through the Bid drawings, item no. 07 of Addendum no. 01. For plot co-ordinate, it is to be note that, land acquisition is in progress and actual co-ordinate along-with land shall be handed over to the contractor during execution. For tentative co-ordinate bidders are requested to contact Project Director office in working days (Sunday-Thursday) within working hours (9:00 am- 5:00 pm BD STD time).	
127	Vol.3 Schedule B1: New 400/132kV Substation at Rahanpur	As per Drawing no. SLD_Rahanpur/2.1 - Single line diagram : Rahanpur, 420kV Capacitor type voltage	There shall be Outdoor AIS CVT for Transformer and Bus-Reactor Bay. Please refer to item no. 07 &	

	(Chapainawabganj), Item no. 2A8	transformer is not indicated for transformer & bus-reactor bay. However, quantity of CVT mentioned in the price schedule is including transformer & bus reactor bay.Please check and confirm the requirement of CVT for transformer & Bus reactor bay.	08 of Addendum no. 01.	
128	Vol.3 Schedule B1: New 400/132kV Substation at Rahanpur (Chapainawabganj), Item no. 2C1, 2C2, 2C3, 2C5- 145kV Switchgear	As per referred price schedule item, voltage level of 145kV GIS equipment is mentioned as 245kV. We presume that this is a typo error and the same shall be read as 145kV. Please confirm	Confirmed. Please, refer to item no. 08 of Addendum no. 01.	
129	Vol.3 Schedule B1: New 400/132kV Substation at Rahanpur (Chapainawabganj), Item no. 2C - 145kV Switchgear	As per referred price schedule item, Short circuit current rating145kV GIS equipment is mentioned as 50kA/3s. However, as per vol.2, clause no. 1.5.1, Rated symmetrical short-circuit current is mentioned as 40kA/3s for 132kV system at Rahanpur 400/132kV Substation. Please check and confirm the short circuit rating for 145kV GIS.	The Switchgear rating shall be 40kA/3s for 145kV GIS. Please refer to item no. 08 of Addendum no. 01.	
130	Vol.3 Schedule B1: New 400/132kV Substation at Rahanpur (Chapainawabganj), Item no. 2C3 - 145kV Bus coupler bay	As per referred item of price schedule, Quantity of 145kV Bus coupler is mentioned as 2 set. However, as per vol.2, clause no. 1.2.2, Page no. 6, and SLD, only one bus coupler bay is mentioned. Please check and confirm the quantity of 145kV bus coupler bay.	There shall be bus section in 132kV Bus, hence, no. of bus-coupler shall be 02 set. Please, refer to item no. 03 of Addendum no. 01.	
131	Vol.3 Schedule B1: New 400/132kV Substation at Rahanpur (Chapainawabganj), Item no. 2C4 - 145kV Bus section bays	As per referred item of price schedule, Quantity of 145kV Bus section bay is mentioned as 2 set. However, as per vol.2, clause no. 1.2.2, Page no. 6, bus section bay is not mentioned. Please check and amend the scope of works suitably.	Addressed already	Y
132	Vol.3 Schedule B1: New 400/132kV Substation at Rahanpur (Chapainawabganj), Item no. 2F8 - Control, monitoring, Protection, monitoring & SAS Function for Power transformer circuits	a) Quantity is not mentioned for 145kV circuits of Control, monitoring, Protection, monitoring & SAS Function for Power transformer. b) Quantity of Control Mimic panel with all accessories including monitoring is mentioned as 2 set for 1set of Power transformer circuits. Please check and amend the clause suitably.	a) Please refer to item no. 08 of Addendum No.01. b) It shall be 1 set. Please refer to item no. 08 of Addendum No.01.	
133	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2A1 (ix), 2A2 (x) & 2A4 (viii)	From the referred line item, we understand that 420kV gas insulated line is a unit rate item.However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 2A1 (ix) - the quantity for 420kV gas insulated line is mentioned as 1Lot.As Bidder need to quote based on Schedule-B1, we presume that 420kV gas insulated line shall be operated as a unit rate item during detail engineering based on actual quantity. Also, please	The GIL price shall be in unit rate. Bidders are advised to follow the price schedule for Bid price. SF6-Air Bushing is already mentioned in the price-schedule, which is revised to Unit rate. Please refer to item no. 08 of Addendum No.01.	

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		add a separate line item for GIS to AIR bushing. Please check and amend the Schedule A & B1 as required		
134	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2A2 (vi)	As per referred clause, Quantity of 420kV, 50kA/3s, three position make proof type earth switch complete with motor operating mechanism is mentioned 1 set. However, as per vol.3, Schedule. A, clause no. 1.3.1, item no. 2A2 (vi), 420kV, 50kA/3s, three position earth switch complete with motor operating mechanism is mentioned as 1 set. And as per SLD, there is no dedicated earth switch / Make proof earth switch is shown for transformer side. Please check and confirm the actual requirement of transformer side make proof earth switch. Accordingly amend the schedule A & B1.	There shall be no make-proof earth switch for Transformer Bay. Please refer to item no. 08 of Addendum No. 01.	
135	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2A2 (ix)	As per referred item, GIS type voltage transformer shall be provided for transformer bay. However, as per SLD, no voltage transformer is shown in transformer bay. And Outdoor AIS type CVT item is available in item no. 2A8.In this regard, please check and confirm the requirement of GIS type voltage transformer for transformer bay.	The CVT shall be Outdoor AIS type. Please refer to item no. 08 of Addendum No. 01.	
136	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2A3 (ii)	As per referred item, Quantity of 420kV, 4000A, 50kA/3s three phase, gang operated circuit breaker complete with spring-stored energy operating mechanism, CSD as Phase switching control device is mentioned 2 sets. However, as per vol.3, Schedule.A, clause no. 1.3.1, item no. 2A3 (ii), Quantity of 420kV, 4000A, 50kA/3s three phase, gang operated circuit breaker is mentioned 1 set only. Please check and confirm the actual requirement	No. of Bus-coupler Bay shall be 02 with 1 set CB in each set of coupler. Please refer to item no. 08 of Addendum No. 01.	
137	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2A6 (ii)	As per referred clause, Quantity of 420kV, single phase, 3 core voltage transformer is mentioned 3 nos. However, as per vol.3, Schedule.A, clause no. 1.3.1, item no. 2A6 (ii), same item quantity is mentioned 6 nos. Please check and revise the schedule B1 accordingly	It shall be 6 No.'s. Please refer to item no. 08 of Addendum No. 01.	

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138	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2A6 (iii)	As per referred clause, Quantity of 420kV, 50kA/3s, three phase, three position high speed earth switches complete with motor operating Mechanism is mentioned 1 no. However, as per Schedule.A, clause no. 1.3.1, item no. 2A6 (iii), the same item quantity is mentioned 2 sets. Please check and amend the schedule -B1 accordingly.	It shall be 2 sets. Please refer to item no. 08 of Addendum No. 01.	
139	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2A10	As per referred clause, Quantity of 420kV, 4000A, 50kA/3, 1mH, single phase Wave trap is mentioned 12 nos. However, as per chedule. A, clause no. 1.3.1, item no. 2A10, the same item quantity is mentioned 8 nos. Please check and amend the schedule -B1 accordingly.	It shall be 8 no.'s. Please refer to item no. 08 of Addendum No. 01.	
140	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2C1 (x) & 2C2 (x)	From the referred line item, we understand that 145kV gas insulated line is a unit rate item. However, as per Vol.3, Schedule. A, clause no. 1.3.1, item no. 2C1 (ix) - the quantity for 145kV gas insulated line is mentioned as 1Lot.As Bidder need to quote based on Schedule-B1, we presume that 420kV gas insulated line shall be operated as a unit rate item during detail engineering based on actual quantity. Also, please add a separate line item for GIS to AIR bushing. Please check and amend the Schedule A & B1 as required	It shall be unit rate item as per price schedule. Bidders are advised to follow the price schedule for Bid price. SF6-Air Bushing is already mentioned in the price-schedule, which is revised to Unit rate. Please refer to item no. 08 of Addendum No.01.	
141	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2C1 (vii) & (viii)	As per referred item, 3 core Current transformer is mentioned. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 2C1 (vii) & (viii), 4 core current transformer is mentioned. In this regard, please confirm the number of CT cores for 145kV Line bay	The no. of CT core shall be 4. Please refer to item no.08 of Addendum No. 01.	
142	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2C2 (ii)	As per referred item, Quantity of 145kV, 3150A, 50kA/3s, three phase, single pole operation circuit breaker complete with spring-stored energy operating mechanism is mentioned 2 sets. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 2C2 (ii), Quantity of 145kV, 3150A, 40kA/3s, three phase, gang operation circuit breaker complete with spring-stored energy operating mechanism is mentioned 1 set.In this regard, please check and confirm the type of circuit breaker for transformer	The CB shall be gang pole operated for Transformer bay and no. shall be 01 for each bay. Please refer to item no.08 of Addendum No. 01.	

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		bay & its quantity. Accordingly, revise the Schedule A & B1.		
143	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2C2 (vi)	As per referred item, Quantity of 145kV, 40kA/3s, three pole make proof type earth switch complete with motor operating mechanism is mentioned 1 set.However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 2C2 (vi), for the same line item, quantity is not mentioned.And as per SLD, No make proof earth switch is shown for transformer bay.In this regard, Please check and confirm the requirement of make proof earth switch for 145kV transformer bay and accordingly amend the schedule A & B1.	There shall be no make proof high-speed earth switch for Transformer Bay. Please refer to item no. 08 of Addendum No. 01.	
144	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2C2 (vii) & (viii)	As per referred item, 3 core Current transformer is mentioned. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 2C2 (vii) & (viii), 4 core current transformer is mentioned.In this regard, please confirm the number of CT cores for 145kV transformer bay.	The no. of CT core shall be 4. Please refer to item no. 08 of Addendum No. 01.	
145	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2D1	As per referred item, Rated short circuit current is mentioned as 31.5kA/1sec for 33kV AIS equipment However, as per vol.2, clause no.1.5.1, Rated symmetrical short-circuit current for 33kV system is mentioned as 31.5kA/3sec.As above both the clauses are contradicting, please check and confirm the actual duration (1sec or 3sec) of short circuit current for 33kV system	The Rated symmetrical short-circuit current for 33kV system shall be 3s. Please refer to item no. 08 of Addendum No. 01.	
146	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2D3	As per referred clause, 3 secondary winding is mentioned for 33kV current transformer. However, as per Vol.3, Schedule.A, clause no. 1.3.1, item no. 1D3, 4-secondary winding is mentioned.Please check and confirm the actual number of secondary windings for 33kV current transformer.Different CT ratios are mentioned in Schedule A & B1. Please check and confirm the CT ratio to be followed.	The no. of CT core for 33kV system shall be 3. Please refer to item no. 08 of Addendum No. 01.	

147	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2D6	As per referred clause, 36kV XLPE cable for Tertiary side connection from power transformer shall be quoted in the referred Lot item. But, separate unit rate line item 2H3 is available for the same. We presume that unit rate for 36kV XLPE cable shall be quoted in the line item no 2H3. The line item 2D6 is not related	The understanding is not correct. The item 2H3 is for Tertiary side connection from power transformer. Please refer to item no. 08 of Addendum no. 01.	

		to 36kV XLPE cable. Please confirm whether Bidder's understanding is in order.		
148	Vol.3 Schedule A: clause no. 1.3.1, item no. 2F5 (b)	We understand from the referred clause that 2Nos. of central units & 1no. bay unit for each 400kV Main bay shall be provided. Please confirm whether Bidder's understanding is in order	The 400kV Busbar protection scheme shall be Main & Redundant, i.e., two central units. For each bay, there shall two bay units, one for Main Busbar protection and other for redundant busbar protection.	
149	Vol.3 Schedule A: clause no. 1.3.1, item no. 2F11 (b)	We understand from the referred clause that 1No. of central unit & 1no. bay unit for each 132kV Main bay shall be provided. Please confirm whether Bidder's understanding is in order	The 132kV Busbar protection scheme shall be Main, i.e., One central units. For each bay, there shall One bay unit for Busbar protection.	
150	Vol.3 Schedule A: clause no. 1.1.2 - NEW 400/132kV OUTDOOR GIS SUBSTATION AT RAHANPUR - Digital Fault & Disturbance Recorder (DFDR),	As per referred clause, The fault locating technology of the DFDR to be supplied for 400kV voltage level shall be Travelling wave technology and for 230kV & below the technology shall be typical. In this regard, please the meaning of typical. However, as per vol.3, schedule-B1, Item no. 2G1, travelling wave type DFDR is mentioned for all 400kV circuit, 145kV circuit & 33kV circuits. Please check and clarify.	DFDR shall be travelling wave type for 400/230kV or 400/132kV substation. However, when there shall be no 400kV level involved, the DFDR shall be typical impedance type.	Y
151	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2G1 -	As per referred item, DFDR shall be provided for 33kV circuit also. However, as per Vol.3, Schedule. A, clause no. 1.3.1, item no. 2G1, DFDR shall be provided only for 420kV GIS, 245kV GIS and Bus reactor. Please, check and confirm the requirement of DFDR for 33kV circuits.	DFDR for 33kV circuits is required for tertiary side of power transformer. Bidders are advised to follow the price schedule.	
152	Vol.3 Schedule A: clause no. 1.1.2 - NEW 400/132kV OUTDOOR GIS SUBSTATION AT RAHANPUR - DC and LVAC System:	As per referred clause, 50% spare capacity shall be provided for 110V DC battery & battery charger, 48 V DC battery & battery charger. However, as per vol.3, schedule-A, Clause no. 1.3.1, item no. 2K1 & 2kK2-Battery shall be sized for present & future scope. In this regard, we presume that Battery & charger shall be sized for present & future scope & no additional spare capacity is required. Please confirm.	The understanding is correct. The 25% spare is applicable for CBs & space in Distribution Board only. Please refer to item no. 04 addendum No. 01.	Y
153	Vol.3 Schedule B1: New 400/132 kV Substation at Rahanpur (Chapainawabganj), Item no. 2O5	As per referred clause, we understand that PLC equipment is required only for local end. We are not envisaging PLC at remote end station. Please, confirm whether bidder's understanding is in order. If any remote end PLC is to be considered, please inform the remote end stations where PLC is to be supplied.	Confirmed.	
154	Volume 2 Clause no. 4.3.7 - Short-Circuit Design, Page	As per referred clause, 400kV system short circuit current shall be 63kA. However, as per clause no. 1.5.1,	The Transformer HV side Bus short circuit rating shall be considered as 63kA irrespective of Site Location.	

	no. 177	400kV short current shall be 50kA for Rahanpur station. Please check and confirm the short circuit current for transformer design for Rahanpur station		
155	Volume II, Clause 1.2.2	In scope of works , it is mentioned to provide GIS hall for both 420KV and 230KV system. However, layout drawing shows that the GIS is outdoor type. Please confirm whether we need to consider indoor GIS or outdoor GIS.	The GIS shall be Outdoor type. Please refer to item no. 03 addendum No. 01.	Y
156	Volume II, Clause 1.2.2	In case it is indoor GIS, Please confirm GIS hall must be PEB or RCC ??	The GIS shall be Outdoor type.	
157	Volume II, General	Soil resistivity data of the proposed switchyard is not given in the document. Please provide the same.	It is under Bidders scope of work.	
158	Volume II, General	Standard control room building plan and elevation is not attached with the tender document. Please provide the same.	Please refer to item no. 07 addendum No. 01.	
160	Volume II, General	We understand that the size of SPR room shall be changed as per requirement. Please confirm.	Not Confirm. The SPR Room size shall be as per Bid requirement.	
161	Volume III, Clause 1.2.2	Please confirm that 33KV switchgear to be placed inside control room.	Not confirm. The 33kV switchgear not to be placed inside control room.	
162	Volume III, Schedule B1 - 2.III.A	We understand that EMTP study to be done only for Bus reactor sizing and insulation coordination. Please confirm.	There shall be a supervision consulatant in this project. The EMTP study is in the Consultant scope of work.Output of EMTP shall be used to select the Reactor & LA number & rating.	
163	Rahanpur 400 kV GIS	Line item 2A1 (ii) - As per price schedule Busbar Disconnector is 02 sets but as per SLD it is 03 sets. Please clarify.	It shall be 02 set as per biding document.	
164	Rahanpur 400 kV GIS	Line item 2A2 (¡¡) - Voltage rating 4420kV. Please clarify.	It shall be 420kV.	
165	Rahanpur 400 kV GIS	Line item 2A2 (ix)- As per price schedule VT requires 1 set, which is not found in SLD. Please clarify	It shall be AIS type. Please, refer to item no. 07 of Addendum No. 01.	
166	Rahanpur 400 kV GIS	Line item 2A3 (i)-(viii) - As per SLD all current rating are 2000A but as per price schedule all current rating is 4000A. Which one is correct please clarify	It shall be 4000A as per Price schedule.	
167	Rahanpur 400 kV GIS	Line item 2A4 – As per price schedule current rating 1600A but as per SLD it is 2000A.Which one is correct please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
168	Rahanpur 400 kV GIS	Line item 2A5 – As per price schedule current rating 4000A but as per SLD it is 5000A which one is correct please clarify	This item is deleted. Please refer to item no. 08 of Addendum no. 01.	

169	~~Rahanpur 400 kV GIS~~	~~Line item 2A3 – As per price schedule bus coupler bays are 2 set but as per SLD it is 01 set. Please clarify.~~	~~It shall be Addressed earlier~~	
170	Rahanpur 400 kV GIS	Line item 2A3 (ii) – As per price schedule CB is 02 set but as per SLD it is 01 set. Please clarify.	It shall be 01 No.s. Please refer to item no. 08 of Addendum no. 01.	
171	Rahanpur 400 kV GIS	Line item 2A7 – As per price schedule LA is 06 Nos, which is not found in SLD. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
172	Rahanpur 400 kV GIS	Line item 2A8 – As per price schedule VT is 21 Nos, but as per SLD it is 15 Nos. Please clarify	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
173	Rahanpur 400 kV GIS	Line item 2A10 – As per price schedule wave trap is 08 Nos, but as per SLD it is 05 Nos. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
174	Rahanpur 400 kV GIS	Line item 2F1 – As per scope of work we need to construct 5 bays, but for CRP overhead circuit it is shown 4 bays. Kindly confirm furnishing bay is included or not.	There shall be 04 Line bays as mentioned in the price schedule. SLD is revised accordingly. Please refer to item no. 07 of Addendum no. 01.	
175	Rahanpur 400 kV GIS	Line item 2F3 – As per price schedule bus coupler is 02 set but as per SLD it is one. Kindly confirm.	Addressed already.	
176	Rahanpur 132 kV GIS	Line item 2C1 (v) & (vi) – Voltage rating is 245kV or 145kV. Please clarify.	It shall be 145kV. Please refer to item no. 08 of addendum no. 01.	
177	Rahanpur 132 kV GIS	Line item 2C1 (x) – Voltage rating is 245kV or 145kV. Please clarify.	It shall be 145kV. Please refer to item no. 08 of addendum no. 01.	
178	Rahanpur 132 kV GIS	Line item 2C2 (v) & (vi) – Voltage rating is 245kV or 145kV. Please clarify.	It shall be 145kV. Please refer to item no.08 of addendum no. 01.	
179	Rahanpur 132 kV GIS	Line item 2C2 (viii) & 2C3 (vi). Voltage rating is 245kV or 145kV please clarify.	It shall be 145kV. Please refer to item no.08 of addendum no. 01.	
180	Rahanpur 132 kV GIS	Line item 2C1 (vii) & (viii) – As per price schedule current rating of CT is 4000A but as per SLD current rating of CT is 4000A and 3000A. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
181	Rahanpur 132 kV GIS	Line item 2C1 (iv) – As per price schedule ES is 02 set each bay but as per SLD in Chapainawabganj-2,Niyamatpur-1 & Niyamatpur-2 bays ES is 03 set each bay. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
182	Rahanpur 132 kV GIS	)Line item 2C2 (ii) – As per price schedule CB is 02 set but as per SLD it is 01 set. Please clarify.	It shall be 01 no. . Please refer to item no. 07 & 08 of addendum no. 01.	

183	Rahanpur 132 kV GIS	Line item 2C2 (iv) – As per price schedule ES is 02 set but as per SLD it is 01 set. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
184	Rahanpur 132 kV GIS	Line item 2C2 (vii) & (viii) – As per price schedule current rating is 2500-4000A but as per SLD it is 3000A. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
185	Rahanpur 33 kV	Line item 2D2 – As per price schedule 02 set of DS and 02 set of DS with ES but as per SLD it is only 02 set of DS. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
186	Rahanpur 33 kV	Line item 2O5 – As per price schedule line matching unit 08 nos but as per SLD it should be 15 nos. Kindly clarify.	The understanding is not correct. Bidders are advised to follow Price schedule.	
187	Rahanpur 33 kV	Line item 2.IIIA4 – As per price schedule LA is 03 nos but as per SLD there is no LA. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
188	Rahanpur 33 kV	Line item 2M2 (ii-c) – As per price schedule Wave Trap is 08 nos but as per SLD it is 15 nos. Please clarify.	The understanding is not correct. Bidders are advised to follow Price schedule.	
189	Vol 2, Scope of Work, Clause 1.2.2 Proposed Rahanpur 400/132 kV Substation shall be located in the-- thana of Rajshahi.	Bidder requests PGCB to provide Site cordinates for Rahanpur site through offical communication as bidder need the same for collecting site details to estimate the Land Development /Soil resistivity/ Layout preparation etc	Please refer to item no. 14 of Addendum no.01.	
190	Vol 2, Scope of Work, Clause 1.2.2 Proposed Rahanpur 400/132 kV Substation shall be located in the--thana of Rajshahi.	Bidder understands that the land for proposed Rahanpur substation is already acquired and under PGCB possession. Kindly confirm	Confirmed.	
191	Volume 2, 1. Scope of Works, Page No.-6	In Scope of work, Space provision only for future bays of 400KV & 132kV need to be considered. Bidder understands that only space provision to be considered for future bays & No Earthing works, Lighting works, etc to be done for future bays. Kindly confirm.	Confirmed.	
192	Volume 2, 1. Scope of Works, Page No.- 6 The configuration of the 420kV busbar shall be Dou-	Bidder understands that 400kV & 132kV GIS is Outdoor type & hence GIS hall mentioned in mentioned clause & at other places is a typo graphical error.	Confirmed. GIS shall be Outdoor type.	Y

	ble busbar with bypass isolator scheme. Jointing plugs shall be kept in GIS hall for adding future bays and jointing plugs required for connecting GIS of different makes.	Kindly Confirm.		
193	Volume 2, 1. Scope of Works, Page No.- 6 AND Price Schedule: New 400/132 kV Substation at Rahanpur	In Scope of works, Rating of Auto Transformer considered to be 400/230/34.5 kV transformers while Price Schedule rating of Transformer considered to be 400/230/33 kV transformers. Bidder understands that Transformer rating to be followed as per Price Schedule ie 400/132/33 kV three phase 400/520 MVA. Kindly Confirm.	Rating is 400/135/34.5kV, 400/520MA.	
194	Price Schedule: New 400/132 kV Substation at Rahanpur 2E1: Power Transformer of 400/132/33 kV three phase 400/520 MVA, YNa0d1, with On-load tap changer, with tertiary winding (brought out to terminal bushings)	Bidder understands Power Transformer mentioned in Price schedule is a typo graphycal error & the same is Auto Transformer. Kindly confirm.	The Transformer shall be Auto transformer.	
195	Volume 2, 1. Scope of Works, Page No.- 7 33 kV GIS Switchgear AND Price Schedule: New 400/132 kV Substation at Rahanpur	Bidder understands 33kV Switchgear is of AIS type as per the Price Schedule. While in Scope of works, 33kV GIS Switchgear is mentioned. Bidder understand that 33 kV GIS Switchgear mentioned in scope of works is due to typographical error. Kindly Confirm.	Confirmed. Please refer to item no.03 of Addendum no. 01.	Y
196	Volume 2, 1. Scope of Works, Page No.- 7: Complete civil works and facilities for one new Control building with cable base-	Bidder understands that as this is an outdoor GIS substation, there is no requirement for Cable basement. Kindly confirm.	Confirmed , no power cable basement is required. Please refer to item no.03 of Addendum no. 01.	Y

	ment(2m)			
197	Vol 2, Scope of Work, Clause 1.2.2 420kV GIS : Space provision for future bays	As per the scope of works, space provision for 6 nos. of 420kV bays and 2 nos. of 420kV trafo bays needs to be provided. However, in SLD, only 4 nos. future 420kV bays and 2 nos. of 420kV trafo bays have been mentioned and in layout only 2 nos. of 420kV bays and 2 nos. of 420kV trafo bays have been shown. Please clarify.	It shall be as per scope of work, Clause 1.2.2, Volume 02.	
198	Vol 2, Scope of Work, Clause 1.2.2 420kV GIS : Bypass isolator scheme	As per scope of works, 420kV GIS with bypass isolator scheme have been mentioned. However, the same has not been considered in price schedule and SLD. Kindly confirm.	There shall be no bypass isolator in 400kV GIS busbar scheme. Please refer to item no. 03 of Addendum no. 01.	
199	Vol 2, Scope of Work, Clause 1.2.2 132kV GIS : bays	132kV GIS Bay requirement for present scope as per tender documents is as follows - 1. As per scope of works, 6 line bays, 2 trafo bays, 1 bus coupler bay, 2. As per tender SLD, 5 line bays, 2 trafo bays, 1 bus coupler bay, 2 bus sectionaliser bays, 3. As per layout, 8 line bays, 2 trafo bays, 1 bus coupler bay, 2 bus sectionaliser bays, 4. As per price schedule, 4 line bays, 2 trafo bays, 2 bus coupler bays, 2 bus sectionaliser bays. Please clarify the ambiguity in the number of bays for 132kV GIS.	6 line bays, 2 transformer bays, 2 bus coupler bays, 2 bus sectionaliser bays.	
200	Vol 2, Scope of Work, Clause 1.2.2 132kV GIS : future bays	132kV GIS Bay requirement for future (space provision only) as per tender documents is as follows - 1. As per scope of works, 8 bays, 2 trafo bays, 2. As per tender SLD, 4 bays, 2 trafo bays, 3. As per layout, no future requirement has been mentioned. Please clarify the ambiguity in the number of bays for future (space provision only) for 132kV GIS		
201	Vol 2, Scope of Work, Clause 1.2.2 Buildings	Please provide the standard drawings for control room building and switchyard panel rooms to be used for 400kV & 132kV GIS.	The required drawings are attached in item no. 07 of Addendum no. 01.	
202	Vol 2, Scope of Work, Clause 1.2.2	As per the mentioned clause of scope of works, Control room building with 2mtrs.deep cable basement,	Confirmed, there is no power cable basement is required. However, trench for control cable is required.	

	Buildings	420kV GIS panel room with 1.5mtrs.deep cable basement and 132kV GIS panel room with 1.5mtrs.deep cable basement is required. We propose cable entry through trenches for all the three buildings in place of cable basements. Please confirm.		
203	SLD_RAHANPUR/2.1	One 420kV GIS bay named as furnished bay has been shown in the SLD, however, the same has not been included in price schedule. Please confirm.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
204	Price Schedule - Item 2A2(vii) SLD_RAHANPUR/2.1	As per the mentioned item no. of the price schedule, CT with current rating of 3150A is required. However,4000A current rating CT is mentioned in SLD. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
205	Price Schedule - Item 2A3 SLD_RAHANPUR/2.1	As per the mentioned item no. of the price schedule, 2 nos. of bus coupler bays are required. However, only 1 no. of bus coupler bay is shown in SLD. Please clarify.	Addressed already.	
206	Price Schedule - Item 2A3(ii) SLD_RAHANPUR/2.1	As per the mentioned item no. of the price schedule, 2 sets of circuit breaker per bay is required. However, as per SLD, only 1 no. of CB per bay is mentioned. Please clarify.	Addressed already.	
207	Price Schedule - Item 2A5(ii) SLD_RAHANPUR/2.1	As per the mentioned item no. of the price schedule,circuit breaker of current rating 4000A is required. However, as per SLD 5000A CB is required. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
208	Price Schedule - Item 2A5(iii) SLD_RAHANPUR/2.1	As per the mentioned item no. of the price schedule,disconnector of current rating 4000A is required. However, as per SLD 5000A disconnector is required. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
209	Price Schedule - Item 2A5(v & vi) SLD_RAHANPUR/2.1	As per the mentioned item no. of the price schedule,CT of current rating 4000A is required. However, as per SLD 5000A CT is required. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	

210	Price Schedule - Item 2A7 SLD_RAHANPUR/2.1	Surge arrestor for busbar has not been mentioned in SLD.However, the same is required as per price schedule. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
211	Price Schedule - Item 2A13	Please provide standard gantry column, beam and equipment structure drawings.	As per tender.	
212	Price Schedule - Item 2C1(iii) SLD_RAHANPUR/2.1	As per the mentioned item no. of the price schedule,disconnector of current rating 3150A is required. However, as per SLD 4000A disconnector is required. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
213	Price Schedule - Item 2C1(vii & viii) SLD_RAHANPUR/2.1	As per the mentioned item no. of the price schedule,CT of current rating 4000A is required. However, as per SLD 3200A CT is required. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
214	Price Schedule - Item 2C2(ii) SLD_RAHANPUR/2.1	As per the mentioned item no. of the price schedule, 2 sets of circuit breaker per bay is required. However, as per SLD, only 1 no. of CB per bay is mentioned. Please clarify.	Addressed already	
215	Price Schedule - Item 2C2(iv) SLD_RAHANPUR/2.1	In SLD,for trafo bay, earth switch is not shown on both sides of circuit breaker as per the requirement of price schedule. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
216				
217	Price Schedule - Item 2C2(vi) SLD_RAHANPUR/2.1	In SLD,for trafo bay, make proof earth switch is not shown as per the requirement of price schedule. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
218	Price Schedule - Item 2C3 SLD_RAHANPUR/2.1	As per the mentioned item no. of the price schedule, 2 nos. of bus coupler bays are required. However, only 1 no. of bus coupler bay is shown in SLD. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	

219	Price Schedule - Item 2C9	Please provide standard gantry column, beam and equipment structure drawings.	As per tender.	
220	Price Schedule - Item 2D2 SLD_RAHANPUR/2.1	As per the mentioned item no. of the price schedule, 4 sets of disconnector is required. However, as per tender SLD only 2 nos. have been shown, Please clarify	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
221	Price Schedule - Item 2.IIIA4 SLD_RAHANPUR/2.1	As per the mentioned item no. of the price schedule, 3 nos. of 390kV LAs are required. Whereas, the same has not been mentioned in the SLD. Please clarify.	The Drawings are tentative and is for Bidding purpose only. Bidders are advised to follow Price schedule.	
222	Vol 2, Scope of Work, Clause 1.6 ambient temperature	As per the mentioned clause of scope of works, maximum ambient shade temperature is mentioned as 45deg C. Kindly confirm the same for outdoor GIS installation.	The ambient temperature shall be 40 deg C. Please refer to item no. 13 of Addendum no. 01.	
Gopalganj Substation				
223	Vol.2 Clause no. 1.2.3 - UPGRADATION of 400/132kV AIS GOPALGANJ SUBSTATION to 400/230/132kV SUBSTATION - 400kV Air Insulated Switchgear (AIS):	As per referred clause, Gopalganj SLD & Layout, we understand that 400kV Main bus shall be extended for 4 nos. of 400kV diameter so that Aminabazar -III & IV line bay can be accommodated in between 400kV Transformer bays & existing Aminbazar-1,2 line bays. Please confirm whether bidder's understanding is in order	Confirmed.	
224	Vol.2 Clause no. 1.2.3 - UPGRADATION of 400/132kV AIS GOPALGANJ SUBSTATION to 400/230/132kV SUBSTATION - 230kV Air Insulated Switchgear (AIS):	There is no Single line diagram available for 230kV AIS at Gopalganj. Please check and furnish the same	Please refer to item no. 07 of Addendum no. 01.	Y
225	Vol.2 Clause no. 1.2.3 - UPGRADATION of 400/132kV AIS GOPALGANJ SUBSTATION to 400/230/132kV SUBSTATION - Two (2) station auxiliary transformers with the capacity of 3-phase, 33/0.415kV, 300 kVA	As per referred clause, Two (2) station auxiliary transformers with the capacity of 3-phase, 33/0.415kV, 300 kVA shall be provided for Gopalganj station. However there is no line item available in price schedule. Please check and confirm the requirement.	It is not required. Please refer to item no. 03, 04, 07 & 08 of Addendum no. 01.	

226	Vol.3 Schedule B1: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard, Item no. 3K1 -(b) -I & 3K2	We are not envisaging any 110V battery for 400kV system & 48VDC battery in this scope for all extension substation as there is no line item available for the same in BPS. We presume that 110V & 48V DC battery with sufficient capacity to cater 230kV bays are already available in existing substation . Please confirm	Not confirmed. Battery for 230kV System shall be provided as per BPS. No 48V Battery & Charger is in the present scope of work.	
227	Vol.3 Schedule B1: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard, Item no. 3L1	There is no line item available for extension of existing LTACDB for 400kV bays under present scope. Please check and include the same in the price schedule. Also, please furnish the location of existing LTACDB of 400kV system.	Line item for extension of ACDB is already in the BPS. Bidders are advised to go through the Biding document more carefully. The Location of ACDB is in the ~~Main----~~	
228	Vol.2 Drawing 400-230-132kV Gopalganj station layout	Please presume that 245kV main bus shall be provided for only present bays. Please confirm	Not Confirmed. It shall be as per tender.	
229	Vol.2 Drawing 400-230-132kV Gopalganj station layout	Please furnish following information of the existing 400kV substation at Gopalganj a) Main bus current rating b) Main bus - Rigid or flexible c) Main bus - Conductor type & size e) Equipment bus - Conductor type & size f) Jack bus - Conductor type & size	a) 5000A b) Rigid c) AL tube 8 inch Pipe d) Quad Finch e) Quad Finch	
230	Vol.3 Schedule B1: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard, Item no. 3A3	As per referred item, Continuous current rating is mentioned 4000A. However, as per vol.3, Schedule A, clause no. 1.3.3, item no. 3A3, continuous current rating of the same item is mentioned 3000A. As the above clauses are contradicting, please check and confirm the actual current rating.	It shall be as per BPS. Please refer to item no. 07 of Addendum no. 01.	Y
231	Vol.3 Schedule A, clause no. 1.3.3, item no. 3A12	As per referred clause, 400kV Bus capacity shall be 4000A. However, as per vol.2, Appendix - A1-2-1, Sl no. 2 (d), 400kV Main bus bar rating is mentioned as 5000A.In this regard, please check and confirm the actual rating of 400kV busbar.	It shall be 5000A. Please refer to item no. 04 of Addendum no. 01.	
232	Vol.3 Schedule B1: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard, Item no. 3B1 to 3B4	As per referred items, 245kV equipment's current rating is mentioned 3150A. However, as per vol.3, Schedule A, clause no. 1.3.3, item no. 3B1 to 3B4, 245kV equipment's current rating is mentioned 3000A. As above both the clauses are contradicting, please check and confirm the actual current rating of 245kV AIS equipment.	It shall be 3150A. Please refer to item no. 04 of Addendum no. 01.	Y

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233	Vol.3 Schedule B1: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard, Item no. 3B1	As per referred item, 245kV T/L bay circuit breaker shall be gang operated. However, as per vol.3, Schedule A, clause no. 1.3.3, item no. 3B1, 245kV T/L bay circuit breaker shall be single-pole operated. In this regard, please confirm the type of circuit breaker operation for 245kV line bays.	245kV T/L bay circuit breaker shall be single-pole operated. Please refer to item no. 08 of Addendum no. 01.	Y
234	Vol.3 Schedule B1: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard, Item no. 3B2	As per referred item, 245kV transformer & mid bay circuit breaker shall be Single-pole operated. However, as per vol.3, Schedule A, clause no. 1.3.3, item no. 3B1, 245kV transformer & mid bay circuit breaker shall be gang operated. In this regard, please confirm the type of circuit breaker operation for 245kV transformer & mid bay	245kV transformer bay circuit breaker shall be gang pole operated. Please refer to item no. 08 of Addendum no. 01.	
235	Vol.3 Schedule B1: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard, Item no. 3B9	As per referred item, 196kV rated voltage, 160kV(rms) continuous operating voltage surge arresters are mentioned. However, as per vol.3, Schedule A, clause no. 1.3.3, item no. 3B9, 216 kV rated voltage, 210kV(rms) continuous operating voltage surge arresters are mentioned. Please confirm the rating of surge arrester to be followed, as the above clauses are contradicting.	LA shall be of 216kV rated voltage. Please refer to item no. 08 of Addendum no. 01.	
236	Vol.3 Schedule B1: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard, Item no. 3D - 33kV Switches & connection	Only 3D5 item in mentioned in schedule-B1. However, as per vol.3, Schedule A, clause no. 1.3.3, item no. 3D1 to 3D6 is mentioned. As these items are required for connection between tertiary winding of transformer to Auxiliary transformer. Please add these line items in the schedule -B1.	There is no new auxiliary transformer under present scope of work. Hence, all items as mentioned in the query is not required. Please refer to item no. 06 of Addendum no. 01.	Y
237	Vol.3 Schedule B1: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard, Item no. 3E3	33/0.415 kV, 500kVA, three phase outdoor type earthing/auxiliary Zig-Zag transformer line item is deleted in the schedule-B1. However, the same is mentioned in the vol.3, Schedule A, clause no. 1.3.3, item no. 3E3.In this regard, please check and confirm the requirement of auxiliary transformer.	There is no new auxiliary transformer under present scope of work. Please refer to item no. 06 of Addendum no. 01.	Y
238	Vol.3 Schedule B1: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard, Item no. 3G1	As per vol.3, Schedule A, clause no. 1.3.3, item no. 3G1, DFDR shall be provided for all 400kV & 245kV bays. In this regard, please confirm whether the DFDR is required for tie bay of 400kV & 230KV system?	It is required for the bays in present scope of work. Please refer to item no. 05 & 08 of Addendum no. 01.	Y
239	Volume II, Clause 1.2.3	In civil works, it is mentioned to provide 230KV GIS and 132Kv GIS building. However, the substation is AIS type. Please clarifythe requirement of GIS building.	The mentioned item is a typo error. The substation is AIS type. Please refer to item no. 05 of Addendum no. 01.	

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240	Volume II, General	Kindly provide existing earthmat layout for integration with the existing mat and for spacing.	The Design of earmat is not finalized yet, hence, cannot be provided. However, for 230kV Switchyard, bidders shall design considering new switchyard.	
241	Volume II, General	Kindly provide existing cable trench layout .	The Design of Cable trench is not finalized yet, hence, cannot be provided. However, for 230kV Switchyard, bidders shall design considering new switchyard.	
242	Volume II, Clause 1.2.3	It is mentioned to consider the provision for 2 number of line bays in between 400KV transformer bays and existing aminbazar line bays . However, from layout it seems that no space is available. Please confirm to proceed with the arrangement shown in layout .	Please refer to item no. 07 of Addendum no. 01.	
243	Volume III, Schedule B1 – 3B	As there is a quantity mismatch between Plan and price schedule for 245KVsystem . PGCB to provide SLD and section drawings for 245KV system.	Please refer to item no. 07 of Addendum no. 01.	
244	Gopalganj 230 kV	Line item 3B4 – As per price schedule DS is 20 set but we think that it should be 22. Please clarify.	As per tender.	
245	Volume 2, 1. Scope of Works, Page No.- 8 AND Price Schedule: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard	As per Scope of works, Auto Transformer to be 400/230/33 kV transformers while Price Schedule metions Transformer to be 400/230/34.5 kV transformers. Bidder understands that Transformer rating to be followed as per Price Schedule ie 400/132/34.5 kV three phase 520/750 MVA.	Transformer rating shall be 400/235/34.5 kV	
246	Price Schedule: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard 3E1: Power Transformer of 400/230/34.5 kV three phase 520/750 MVA, YNa0d1, with On-load tap changer, with tertiary winding (brought out to terminal bushings)	Bidder understands Power Transformer mentioned in Price schedule is a typo graphycal error & the same is Auto Transformer. Kindly confirm.	Confirmed.	
247	General	Bidder understands that necessary shut down will be arranged & provided by PGCB for Gopalganj site.	Confirmed. The contractor shall be allowed for minimum interruption.	
248	Volume 2, 1. Scope of Works, Page No.- 8 Two (2) station auxiliary	Scope of work mentioned 300kVA Auxillary Transformer while Price schedule mentioned 500kVA earthing/auxiliary Zig-Zag transformer. Bidder understands	The Auxillary Transformer is deleted from present scope of work. Please refer to item no. 05,06 & 08 of Addendum no. 01.	

	transformers with the capacity of 3-phase, 33/0.415kV, 300 kVA AND Price Schedule: Upgradation of 400/132kV Gopalganj Substation by erecting 230kV Switchyard 3E3: 33/0.415 kV, 500kVA, three phase outdoor type earthing/auxiliary Zig-Zag transformer	that 33/0.415 kV, 500kVA earthing/auxiliary Zig-Zag transformer is required as mentioned in Price Schedule. Kindly confirm.		
249	Vol:2 Scope of Work : Cl.No. 1.2 Finishing Ground Level (FGL)	Please provide the HFL & NFL data.	For HFL, Bidders are advised to collect data at his own responsibility. Meaning of NFL is not understood.	
250	Vol:2 Scope of Work : Cl.No. 1.2 Land development	It is envisaged that boundary wall of switchyard is already existing. If any extension is required, PGCB has to furnish the plan layout of the existing boundary wall. However, roads within switchyard are considered to be in present scope only.	Confirmed that, boundary wall of switchyard is already existing and out of scope for present work. Only roads within switchyard are in the present scope.	
251	Vol:2 Scope of Work : Cl.No. 1.2 Re-location of Bus LA, ES & CVT	1. PGCB has to confirm the location of ES. 2. We presume that all existing control cables for ES & CVT shall be reused. We have considered one no. JB near to the location of existing equipment (ES,CVT) , the existing cable shall be terminated on that JB. The bidder shall supply new cables from JB to equipment, (CVT, ES) in its new equipment (ES, CVT) location. 3.Dismantling works for existing foundation of above said LA, ES & CVT in not in our scope.	Relocation of Bus ES is out of present scope of work. Only relocation of Bus LA & CVT is in present scope of work. 1. Please refer to Layout Drawing, item no. 07 of Addendum no. 01 2. Not confirmed. New cables shall be furnished. 3. Dismantling works for existing foundation of above said LA & CVT is in present scope of work.	
252	Vol:2 Scope of Work : Cl.No. 1.2 Extension of 400kV Bus	Only main busbar has been considered in the space for those vacant line bays (Aminbazar-3,4). Any type of equipment, earthing, ligthtning protection, Illumination etc. have not been considered for those two number vacant bays under present scope.	The extension of earthing system is in the present scope of work. The mentioned bays shall be unequipped.	

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253	Vol:2 Scope of Work : Cl.No. 1.2 33kV switchyard	As per our understanding, there is no 132kV system or 132kV transformer in present scope. We presume that - 1. The 33kV system is outdoor type only. 2. Two no Earthing & Aux. transformer (33/0.415kV) are connected with two no. 400/230/33 kV auto transformers.	Confirmed. 1. Confirmed 2. Earthing & Aux. transformer is out of present scope of work.	
254	Vol:2 Scope of Work : Cl.No. 1.2 33kV switchyard	Location of 132/33kV transformers has not been shown in the tender layout. Please provide the details for the same for construction of 33kV switchyard	There is no 132/33kV transformers in the present scope of work.	
255	Vol:2 Scope of Work : Cl.No. 1.2 AC & DC auxiliary power supply	We presume that for aux. power for 400kV switchyard extension, existing LT panels will be used with modification /extension of O/G feeders and sufficient feeders are available in the DBs.Item as per clause no.3L of the price schedule shall be used for 230kV switchyard. Please confirm.	Necessary modification of LT ACDB for present Bays are in the scope of work of the contractor.	
256	Vol:2 Scope of Work : Cl.No. 1.2 230 kV GIS building with cable basement	As it is an AIS substation, hence any 230KV GIS building is not envisaged.Please confirm.	Confirmed.	
257	Vol:2 Scope of Work : Cl.No. 1.2 132 kV GIS building with cable basement	As it is an AIS substation, hence any 132KV GIS building is not envisaged.Please confirm.	Confirmed.	
258	Control Room Building	It is envisaged that existing control room & SPR unit will be used for the new 400/230KV bays. Hence, please provide the layout details for existing control room building.	Location of existing control building is mentioned in the attached layout. Please refer to item no. 07 of Addendum no. 01.	
259	Earthmat Design	As per our understanding, the earthmat is existing. So we will extend the existing earthmat for our present scope. Hence, no earthing design has been envisaged.	It is in the scope of work.	
260		Please provide the existing earthmat layout, DSLP layout, cable trench layout, illumination layout, EKD	Available drawings are attached in item no. 07 of Addendum no. 01.	

		drawing.		
261	Construction Power	It is envisaged that PGCB will provide contruction power upto a certain point for present scope of works & the details for the same shall be provided.	It is the bidder's scope. However, PGCB will help in acquiring permission from any Authority required for obtaining the constructional Power.	
262	245kV SLD	Please provide the SLD for 230kV portion of the switchyard.	Addressed already	
263	33kV equipments	There is no line item for 33kV equipments in the price schedule. Please clarify.	As per tender.	
264		As per our understanding, 33kV connection from 132/33kv transformer and tertiary of 400/230/33kV transformer is in present scope of works. Please confirm.	Not confirmed. It is out of scope.	
265	Price Schedule - Item 3A13,3B13	Please provide standard gantry column, beam and equipment structure drawings.	As per tender.	
	Chapainawabganj Substation			
266	Vol.2 Clause no. 1.2.3 - Extension of existing 132/33 kV Substation at Chapainawabganj	Please furnish the following layouts of existing substation: a) Overall layout -Plan & section b) Control building layout c) Cable trench layout d) Earth mat layout	As per tender.	
267	Vol.2 Clause no. 1.2.3 - Extension of existing 132/33 kV Substation at Chapainawabganj	We presume that sufficient space is available in the control room to accommodate new control & protection panel. Please confirm	The control Room Building shall have to be extended as per bid.	
268	Vol.2 Clause no. 1.2.3, Extension of existing 132/33 kV Substation at Chapainawabganj	Please furnish the SLD & GA drawings of existing LTACDB & DCDB.	Prospective Bidders are advised for site visit for necessary information.	
269	Vol.3 Schedule B1:Extension of 132kV AIS bays at 132/33 kV hapainawabganj Substation , Item no. 4C4	As per referred clause, busbar scheme for 132kV substation is Main & Transfer bus. However, as per vol.3, Schedule A, clause no. 1.1.4, the busbar scheme is Main & Transfer bus with Bypass Isolator.	The Busbar scheme Main & Transfer bus. Please refer to item no. 06 of Addendum no. 01.	

		As the above clauses are contradicting, please check and confirm the existing busbar scheme for 132kV Chapainawabganj (old) substation		
270	Vol.3 Schedule B1:Extension of 132kV AIS bays at 132/33 kV hapainawabganj Substation , Item no. 4C4	As per referred clause, 1200-2400/1A current ratio is mentioned for 132kV Current transformer. However, vol.3, Schedule A, clause no. 1.3., item no. 4C4, different current ratios are mentioned for different cores. In this regard, please check and confirm the actual CT ratio.	The CT ratio shall be as per vol.3, Schedule A, clause no. 1.3., item no. 4C4.	
271	Vol.3 Schedule B1:Extension of 132kV AIS bays at 132/33 kV chapainawabganj Substation , Item no. 4O1	Please furnish the make & model number of the existing FOTE system.		
272	Volume II, General	Drawings not attached with the tender document. PGCB to provide the existing SLD, layout , section and earthmat layout.	Available drawings are attached in item no. 07 of Addendum no.01.	
273	Volume II, Clause 5.9	Existing control room drawing to be provided in which horizontal extension is required.	Available drawings are attached in item no.07 of Addendum no.01.	
274	Drawing: SLD & Layout	Kindly arrange to provide SLD & Layout for Chapainawabganj site.	Addressed	
275	Vol:2 Scope of Work : Cl.No. 1.2 Extension of control room building	Please provide the details/drawing of the existing control room , as the extension for the same is in present scope of works.	Addressed	
276	Vol:2 Scope of Work : Cl.No. 1.2 Extension of LT AC & DC DB	As per the price schedule, only extension of LT AC & DC boards is in present scope of works. Hence, it is envisaged that necessary space is available in the existing boards and in control room near to the existing boards.	Space shall be made available through control Room extension.	
277	Price Schedule - Item 4C8	Please provide standard gantry column, beam and equipment structure drawings	As per tender	
278	Drawing	Please provide the existing earthmat layout, DSLP layout, cable trench layout, illumination layout, EKD drawing.	As per tender.	
Common queries				

279	Vol.3 Scheduel -A, Clause no. 1.1.1, Page no. 6 - EOT crane	We are not envisaging any EOT crane in the scope of works, as there is no GIS Hall. Please confirm	Confirmed.	
280	Vol.2 PLCC & FOTE communication for 400kV line	a) For remote end tripping of each 400kV line the Main Protection-1 shall be through FOTE whereas the Main Protection-2 shall be through PLCC. b) Speech & Data shall be through FOTE only Please confirm whether Bidder's understanding is in order	a) Not confirmed. As per tender. b) As per tender.	
281	Vol.2 Clasue no. 5.10.1	Busbar protection central unit shall have the provision for accomodating future bays. However,Bay units shall be provided only for present bays.Please confirm.	Confirmed.	
282	Vol.2 Clause no. 15.1.4- Capacitor Voltage Transformers, Page no. 506	As per referred clause, " The capacitor shall have a rated capacitance of not less than 6000pF at the working voltage" However, as per clause no. 6.7, Page no. 160, Sl no. 4, 420kV Class Capacitive Voltage Transformer, rated total capacitance is mentioned as 5000 pF.As above both the clauses are contradicting, please check and confirm the actual requirement.	Please refer to item no. 11 of Addendum no. 01.	
283	Vol.2 Appendix - A1-1-1, A1-1-2, A-1-1-3 Sl no. 3 - Electrical data - Rated continuous current at 40 DegC ambient temp.:	As per referred clause, we understand that rating of all GIS & outdoor AIS equipment shall be guaranteed at 40 DegC only. Please confirm	Confirmed.	
284	Vol.2 Appendix - A1-2-5 - Insulator string	We are proposing long rod composite polymer insulator instead of Disc insulator string. Please accept the same.	As per tender.	
285	Vol.2 Clause no. 1.5.3	As per the referred clause, the creepage distance shall be 25mm/kV. However, as per clause-1.6, atmospheric pollution is mentioned as 'medium' which corresponds to 20mm/kV creepage. As the requirements are contradicting, please confirm the creepage distance to be adopted.	The creepage distance shall be 25mm/kV.	
286	Vol.2 Clause no. 2.31, Page no. 50	As per referred clause, "Insulating oil shall be provided by the Contractor for all oil filled apparatus and 10% excess shall be provided for topping up purposes in sealed drums"As per Mandatory spares under schedule-B1, item no. 5.9.1.7, 20nos. of transformer	It shall be as per price schedule.	

		oil 200 litter barrel is specified. Hence, we are not envisaging supply of 10% spare oil with transformers, as mentioned in Clause-2.31.		
287	Volume 2 Clause no. 3.4.5, Page no. 74	Please specify the degree of protection of Outdoor GIS and associated local control cubicle (LCC) enclosure.	As per tender.	
288	Volume 2 Clause no. 3.4.5.13, Page no. 81	As per referred clause, "The Contractor shall include in his supply power operated lifting appliances with all accessories as appropriate to the size and weight of component parts of the switchgear which require to be lifted in the course of maintenance or repair."In this regard, please furnish the specification of power operated lifting appliances and add a separate line item in the price schedule.	As per tender.	
289	Volume 3 Drawing 400-230-132kV Gopalganj station layout	We presume that 230kV & 400kV SPR room is to be sized only for present bays under the scope of this package. Please confirm	As per tender.	
290	Volume 2 Clause no. 4.17.1	Type tests & Special tests shall be conducted on only one unit of the transformers supplied for the entire package	Type test shall be conducted for only one unit of the transformers of each type (400/230kV & 400/132kV) and special test for all transformer.	
291	Volume 2 Appendix - A2-1-1 & A2-2, Sl no. 11	Please specify the ambient temperature over which the temperature rise shall be guaranteed.		
292	Volume 2 Appendix - A2-1-1 & A2-2, Sl no. 14	Please specify the MVA base (ONAN or ONAF) at which the percentage impedance & losses shall be guaranteed?	ONAF rating shall be considered for percentage impedance & losses.	
293	Volume 2 Clause no. 5.10	Please furnish the technical specification for 400kV busbar protection as the same is not available in the referred clause	Please refer to item no. 10 of Addendum no. 01.	
294	Volume 2 Clause No. 5.11 & 5.12	Kindly confirm the following: a) Whether LBB can be a part of busbar protection or Main protection relay? b) Whether Auto reclose and synchro check feature can be inbuilt feature of BCU?	a) As per tender. b) Auto reclose and synchro check feature shall be made available in the Main Relay. BCU may have synchro check feature.	
295	Volume 3 Schedule B1: New 400/230kV Substation at Bogura (W), Item no. 1E1	Please furnish the following parameter regarding 520/750MVA, 400/235/34.5kV auto-transformer: 1) Impedance Pattern : Constant ohmic or Constant Percentage type? 2) Impedance between HV-TV and LV-TV at 750MVA.	1) Constant Percentage type 2) Bidders shall design the same at his own to restrict the fault current of LV & TV to acceptable limit, typically 4-6 times of rated current for LV & TV side	
296	Volume 3 Schedule B1: New 400/132kV Substation at Rahanpur (Chapainawabganj),	Please furnish the following parameter regarding 400/520MVA, 400/132/34.5kV auto-transformer: 1) Impedance Pattern : Constant ohmic or Constant	1) Constant Percentage type 2) Bidders shall design the same at his own to	

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	Item no. 1E1	Percentage type? 2) Impedance between HV-TV and LV-TV at 520MVA.	restrict the fault current of LV & TV to acceptable limit, typically 4-6 times of rated current for LV & TV side	
297	Volume 3 Schedule B1, Item no. 2N2	We presume that switchyard lighting is required only for present scope of works. Please confirm	Confirmed.	
298	General Diesel generator	We are not envisaging DG set for the project as no line item is available in BPS for the same. Please confirm.	Confirmed.	
300	General Earthing	We presume that earthing & gravel filling in the new switchyard are required only for the bays under present scope of work. Please confirm	Confirmed; however, for Gopalganj SS refer to item no.	
301	Volume 2 Drawing - SAS/5.4 - SAS Architecture Integrated with SCADA system	We presume that Parallel redundant protocol / HSR is not required for the bay level IED communication to SAS as the same is not indicated in the technical specification. Please confirm whether Bidder's understanding is correct.	PRP is required for 400kV System only. For 230kV & lower voltage, PRP is not required.	
302	Volume 2 Clause no. -4, Power transformer	We presume that the following online monitoring systems are not envisaged for transformers supplied under this package, as the same are not mentioned in the technical specification: a) Online Oil drying system b) Online bushing monitoring system	a) Confirmed b) Confirmed.	
303	Volume 2 Clause no. 6.12.4, All cable trays shall be Perforated., Page no. 340	As per referred clause, cable trays are to be perforated. Kindly specify whether ladder type cable trays can be used instead of perforated trays.	As per tender.	
304	Volume 2 Soil resistivity (Cl.7.5)	Soil resistivity of 100 ohm-m is specified for bid submission. Please clarify how the adjustments can be made during detail engineering if the soil resistivity value increases or decreases?	As per tender.	
305	Volume 2 Backfill above main earth mat	As mentioned in Cl. 7.7.3 of Volume 2, after laying main earth mat and backfilling, bricks are to be used for filling upto finished site level. Kindly clarify whether bidder can use gravel instead of bricks.	As per tender.	
306	Volume 2 Clause No. 12.1 - NLDC integration	We presume that the existing communication infrastructure are adequate for transmission of signals to NLDC and hence supply, installation, testing & commissioning of the same is not envisaged under present scope of works. Please confirm	It shall be as per tender. However, NLDC integration refers to works related to software at NLDC master & Back-up station as mentioned section 12, volume 02 of 03 of the Bidding documents.	

307	Volume 2 Cable laying in trenches	We propose to lay cables on support angles in outdoor trenches. For SPR room, cables shall be laid in ladder trays. Please confirm.	As per tender. Details shall be finalized during execution within the contract price.	
308	Volume 2 Outdoor lighting	Please confirm whether light fixtures shall be mounted on towers and Lightning-cum-Lighting masts	Light fixtures shall be mounted on towers. Other proposal shall be finalized during execution within the contract price.	
309	General Order of Precedence	Technical requirements for the tender are specified in 3 broad categories - 1) Bid Price Schedule; 2) Technical specifications - Volume 2 of 3 and Volume 3 of 3; 3) Tender drawings like SLD & Layout. In case of contradictions among these documents, please inform the order of precedence - which one will prevail over others.	Sequence shall be : Price schedule- Technical specifications- Drawings	
310	Volume 2 Clause no. 5.2	We presume that only main relays and SAS has to be procured from the list of manufacturers mentioned in Cl.5.2. In this regard we presume the following: a) Bidder can supply Indian make panels & auxiliary relays b) Assembly and testing of can be done at local factory in India. Please confirm.	The understanding is not correct. The complete Protection, Automation & Metering system shall be as per tender.	
311	Type test reports	We are not envisaging of repetition of type test for any equipment. Valid type test reports shall be submitted during detail engineering for similar or higher rating equipment. Please confirm	Not confirmed. Repetition of type test for any equipment is not intended. However, Valid type test reports for all equipment shall be submitted with *<u>Bid</u>* as per bid requirement.	
312	Dynamic short circuit test for transformer	We are not envisaging dynamic short circuit test for power transformer. Dynamic short circuit capability of transformer shall be confirmed by means of calculation. Please confirm.	Not confirmed. The valid Dynamic short circuit test report for transformer having similar design of the offered transformer as per schedule I, volume 03 of 03 of the Bidding documents shall be submitted with bid. However, for offered transformer Dynamic short circuit capability of trans-former shall be confirmed by means of calculation with verification from Independent Authority as per tender during execution stage.	
313	Volume 2 Chapter -17 - Power Cables and Cable Terminating accessories Schedule B1, item no. 1H1 & 2H3	a) The referred specification is for EHV cables. The same cannot be followed for 33kV cables as there are additional construction features specified. As in this contract, we are not supplying any EHV cable. Please furnish the specification for 33kV cable. b) Please confirm whether 33kV cable shall be earthed type or unearthed type.	a) As per tender. b) Earthed type.	

314		If the quantity of Steel structure (Gantry Column & Beam) differs from price schedule in execution stage, addition bill will be paid by PGCB. Kindly clarify	As per tender.	
315		From various places in price schedule, we have found that GIL length should be considered as 50 meter for price submission purpose. If we design to use 3-phase encapsulated GIL, then 50 meter is assumed as total length of GIL per bay. But if we use single phase encapsulated GIL, then assuming that we need to consider 50 meter GIL per phase. Kindly confirm.	For 132kV, GIL shall be 3-phase encapsulated. For 230 & 400kV, GIL shall be single-phase encapsulated. Hence, the understanding is correct.	
316		In Type Test Requirement, Shunt Reactor Type Test is required for 125 MVAR. To find complied manufacturer, we request to amend the rating of Shunt Reactor which type test report should be provided.	For type test, the Shunt Reactor rating shall be considered as 40MVAR.	
317		As you know that for GIS, very few manufacturers in the world having the qualification following PGCB requirements. Among those few manufacturers, most of them have either spring or hydraulic operating mechanism for CB closing & opening. We request you to accept both.	The acceptable mechanism are Spring (Energy storage) – Spring (Energy Transmission) or Spring (Energy storage) – Hydraulic (Energy Transmission)	
318	Volume-3 of 3 & Price Schedule. 2M5 & Price Schedule.B4 3M6	As per the reffered clause, Fire fighting system need to be provided for buildings (Control Room & Battery room + Switchyard Panel Room). Bidder persumes the term "Fire fighting system" means Fire detection system & Portable fire extinguishers only. Kindly confirm the bidder understanding is correct.	Confirmed.	
319	Price schedule - B4 '2E4	As per price schedule it has been mentioned to consider both water mist & depressurization system for transformer fire protection system. Please clarify, which system to be considered.	As per tender.	
320	Vol-2, Scope of works & Price schedule Cl.no : 1.2 & Schedule B4 Item no 1M, 2M, 3M & 4M	As per referred scope, the soil investigation is in bidder's scope. However in price schedule there is no separate item for the same. Kindly add an item for the same in price schedule.	It shall be included in the price schedule.	
321	Vol-2, Scope of works Cl.no : 1.2	As per referred clause, the land development is in bidders scope. Kindly provide the following details for all S/S in order to estimate the quantum of foundation work. 1. Contour survey showing existing FGL & spot levels. 2. Soil investigation report (if available)	1. It is in the bidder scope 2. Not available 3. As per tender - 500mm above the HFL or nearest road level whichever is greater. 4. Refer to item no. 14 of Addendum no. 01. 5. Please refer to item no. 27 above	

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		3. FGL for the proposed SS 4. Global Co-ordinates (latitude & Longitude) 5. High Flood Level		
322	Vol-2, Scope of work & Price schedule Cl.no : 1.2.1, 1.2.2, 1.2.3 & Schedule B4 Item no 1M3, 2M3 & 3M3	As per referred clause & BPS "New control building with cable basement, New 400kV GIS panel building with cable basement, New 230kV GIS panel building with cable basement & New 132kV GIS panel building with cable basement, 400kV Panel room with battery & 400kV Panel room with battery , is in the scope of work for New S/S. However the finishing schedule for the buildings is not enclosed in tender document. Kindly provide the finishing schedule indicating with individual room finishing requirement in order to estimate the finishes work.	As per tender.	
323	Vol-2, Scope of works Cl.no : 1.2.1	As per referred clause, Only 400kV & 230kV GIS equipment scope is mentioned for New 400/230/33kV GIS substation at Bogura (W). The scope of Civil & structural work is not furnished. Please furnish the same.		
324	Vol-2, Technical specification , Section 11 (Supporting structures for Outdoor Equipment) Cl.no : 11.2	We trust that, all girders, towers and equipment support structure shall be of steel lattice type connected with their foundation by foundation bolts with base plate. Please confirm.	As per tender.	
325	Vol-2, Technical specification , Section 11 (Supporting structures for Outdoor Equipment) Cl.no : 11.7.4	We presume that, the galvanisation thickness for structures is 610g/sq.m for all proposed substations.Please confirm.	As per tender.	
326	Vol-2, Technical specification Sec-10A (Buildings and Civil Engineering Works) Cl.no : 10A.3.3 (Drainage)	We wish to inform that, the type of drain & provision of drain is not specified in the tender document. We presume that, the drain shall be open rectangular brick masonry type and the same shall be provide on one side of the road.Please confirm.	As per tender.	
327	Vol-2, Technical specification & Price schedule 10A.3.13 (Fences) & Schedule B4 Item no 4M2.xv.b	As per referred clause , the bidder shall erect a permanent fence 2.0m high in accordance with BS 1722 part 10. Please furnish the drawing for the same for estimate the quantum of work.	Please refer to item no. 07 of Addendum no. 01.	
328	Volume 2, Sec-10A (Buildings and Civil Engineering	We trust that, the buildings shall not be designed with any future floor load, as the same is not mentioned in	Not confirmed. The buildings shall be designed with future floor load.	

	Works) Cl.no : 10A.3.1	the specification. Please confirm.		
329	Vol-2, Scope of works Cl.no : 1.2.1, 1.2.2	As per price schedule, the land development work is done with carried/dredged earthfilling. Hence retaining wall would be required for the proposed SS yard. However in price schedule, there is no item for the same. Request to include the item for the same.	As per tender.	
330	Vol-2, Scope of works Cl.no : 1.2	Please provide the following layouts for the existing Gopalganj & Chapainawabganj substations. 1. Existing General arrangement layout 2. Existing Cable trench, drain & gravel spreading lay-out. 3. Existing structure detailed drawing. 4. Existing contour layout with FGL 5. Existing soil report. in order to estimate the quantum of work.	Available Drawings are attached in item no. 07 of Ad-dendum no. 01.	
331	Vol-2, Scope of works Cl.no : 1.2	We trust the following Civil works are not in Bidders scope for the existing Gopalganj & Chapainawabganj substations. 1. Land development at Gopalganj S/S. 2. Road, drain, fence and gate 4. Dismantling of Existing Road, Drain, Cable trench. 5. Dismantling of Existing structure along with founda-tion. 6. Dismantling of existing fencing at Gopalganj Please confirm. If not kindly add item for the same in BPS.	Confirmed. Fencing work against Chapainawabganj substations shall be as per tender.	
332	Volume 2, Sec-19 (Drawings forming part of the specifica-tion) Cl.no : 19.2	As per referred clause, it is mentioned that following general civil drawings are provided with tender docu-ments. 1. Main Control room Building - Ground Floor, First Floor, Section I & Section II 2. Switchyard Panel room (SPR) 3. Boundary wall 4. Property Line 5. Guard House 6. Gantry and cable trench 7. Relative level of switchyard 8. Internal road However, the above drawings are not provided with	Please refer to item no. 07 of Addendum no. 01.	

		the tender documents. Hence, kindly furnish the drawings in order to assess the quantum of civil works.		
333	Vol-2, Scope of works Cl.no : 1.2.3	As per referred clause, One new 230kV GIS building with cable basement & One new 132kV GIS and control building with cable cellar basement is in bidder's scope at Gopalganj S/S.Since the proposed Gopalganj S/S is a AIS S/S and the same is not included in BPS, we trust that the same is not in bidder's scope. Please confirm.	Confirmed. Please refer to item no. 05 of Addendum 01.	
334	Vol-2, Scope of works Cl.no : 1.2.4	We understand that, the horizontal expansion of existing control room building is in the scope of work at Chapainawabganj S/S.Please furnish the following drawing of the existing building in order to estimate the quantum of works. 1. foundation drawing, 2. structural drawing, 3. sectional&elevation drawing, 4. Architectural drawing & 5. Finishing schedule	As per tender.	
335	Vol-2, Scope of works Cl.no : 1.2.4	We understand that, the horizontal expansion of existing control room building is in the scope of work at Chapainawabganj S/S. Please clarify, whether the whole building (existing + expansion) to be painted after completing the construction work of building.	The whole building (existing+expansion) to be painted.	
336	General	We understand the land for construction is already acquired by PGCB and PGCB will provide contractor encumbrance free land during award of contract. Any disputes arising against land acquisition of land provided by PGCB during construction of works will be taken care by PGCB. Kindly confirm.	Confirmed that, any issues regarding Land acquisition shall be done by PGCB.	
337	General	We understand that PGCB shall provide water and electricity for construction works for free of cost at each sub-station location to Bidder. Kindly confirm whether our understanding is correct.	The understanding is not correct. It is in bidders scope.	
338	General	Kindly confirm that the land for all the substations has been acquired by PGCB and will be immediately handed over after contract award.	Confirmed that, land will be immediately handed over to contractor after con-tract award.	
339	Volume 2, Clause 5.18	Clause 1: For the purpose of standardization, the DFDR to be supplied under this project shall be from Qualitrol (Belgium/UK), SIEMENS (Germany), SEL	As per tender.	

		(USA). we presume that Manufacturer Authorization Letter only is required for approved manufacturers. Kindly confirm		
340	Volume III, Clause 1.3.3	Functional Guarantees of the facilities is NOT APPLICABLE, In-case bidder proposes more than one qualified manufacturer for transformer & reactor and submitted the filled GTP for all the qualified manufacturer, kindly clarify that PGCB what loss figure shall be considered for loss capitalization while bid evaluation	To be discussed with Contract	
341	Volume III, Clause 1.3.3	Kindly clarify that whether the Auxiliary transformer / earthing transformer losses will be capitalized while bid evaluation or not?	To be confirmed by Contract	
342	Volume II, Clause 3.4.5.30.1	As per referred clause we understand that the manufacturer of GIS & GIL for all the rating class shall be from Europe / North America /Japan / Korea Origin. Kindly confirm.	As per tender.	
343	Vol 2, Scope of Work, Clause, 1.6 Climatic Conditions The information in this clause is given solely for the general assistance of the bidder and no responsibility for it will be accepted nor will any claim based on this clause be considered.	Bidder understand the Climatic condition of sites provided by PGCB are in line with the Metrological data of Bangladesh Govt. Hence, it can be used by Bidder for Pre Bid Engineering. Please confirm	As per tender.	
344	Vol 3, Schedule I: DRAWINGS AND DOCUMENTS TO BE SUBMITTED WITH BID AND AFTER CONTRACT Type test requirement for Power Transformer	Bidder understands that 400kV, 520MVA & 750MVA rating Transformers are special Transformers. Considering the tender QR requirement of 10 yrs of manufacturing experience & 6 units of same or higher rating supplies outside manufacturers own country for these transformers very limited manufacturers from Europe/Japan are only qualified. Bidder feels that Special type test like Short circuit withstand test is important test & should be conducted in STL member Lab as per bid requirement. However, other tests like Temperature Rise, Dielectric, Partial discharge & Sound level are normal tests. Manufacturers who are meeting the above QR are having very good laboratory setup to conduct these tests in their own laborato-	To be discussed	

		ries which are accreditation to perform these test as per IEC standard. Bidder requests PGCB to accept Temperature rise, Dielectric & other routine test from the own laboratories of the manufacturers. For more comfort PGCB may ask manufacturer to product test report which is verified/ witnessed by qualified international third parties/ testing agency		
345	Bid Drawings.	Bidder understands that Drawing layout issued by PGCB in tender are tentative. Bidder will do necessary Pre-Bid Engineering based on these drawing layouts. However, during exception, if PGCB changes the layout arrangement, then revision in Engineering quantities due the change in layout is chainable by Bidder. Kindly confirm.	Not confirmed. It shall be as per tender.	
Commercial queries				
346	Volume-I, Section 3. Evaluation and Qualification Criteria Page:3-8 Participation as a contractor in at least three contracts that have been successfully completed within the last 10 (ten) years (counting backward from the bid submission deadline) and that are similar to the proposed contract, where the value of the Bidder's (or JV partner) participation in one contract exceeds USD 60.0 million (USD sixty million) and with a total aggregated value of at least: USD 100.0 million (USD one hundred million) Volume-I, Section IV: Bidding Forms Page:4-30, FormEXP-1:Specific Experience Contract value (USD)	We understand the bidder need to fill the form "Form EXP-1: Specific Experience" for bidder qualification. While filling the form, if contract value is in other currency then it should be converted to USD and the exchange rates will be as on date of award of that particular contract. Kindlyconfirm. If our above understanding is not correct, kindly provide the methodology for considering exchange rates.And also we request to provide the methodology for considering exchange rates for converting annual turnover and current contract commitments to USD.	Yes. Your understanding is correct. Currency conversion rate shall be considered at the same time when real currency was taken.	

347	Volume-I: Section 7 - General Conditions of Contract clause: 9.3, Page 7 - 10 The Contractor shall acquire and pay for all permits, approvals, and/or licenses from all local, state, or national government authorities or public service undertakings in the country where the Site is located, which such authorities or undertakings require the Contractor to obtain in its name and which are necessary for the performance of the Contract, including, without limitation, visas for the Contractor's and Subcontractor's personnel and entry permits for all importedContractor's Equipment. The Contractor shall acquire all other permits, approvals, and/or licenses that are not the responsibility of the Employer under GCC Subclause 10.3 hereof and that are necessary for the performance of the Contract.	In the said clause it is mentioned that employer shall give administrative support to accord permits, approvals and/or licenses from local, state or national government authorities or public service undertakings in the country where the Site is located. Since bidder during tendering stage is not aware of concerned authorities from which administrative support may be required, we request PGCB to kindly provide us the list of concerned authorities to get the approval regarding construction of works.	Please follow the bid documents	
348	Volume 1, Section 9: contract forms: Appendix 1- Terms and Procedures of Payment, Page 9-7	We understand the advance paid to the Contractor shall be interest free. Kindly Confirm.	Confirmed.	
349	Volume 1, Section 9: contract forms: Appendix 1- Terms and Procedures of Payment, Page 9-7	Clause: • Five percent (5%) of the total or pro rata CIP or amount upon issue of the Completion Certificate, within forty-five (45) days after receipt of invoice. • Five percent (5%) of the total or pro rata CIP or amount upon issue of the Operational Acceptance Certificate, within forty-five (45) days after receipt of invoice.	Please follow the bid documents	

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		We understand that completion certificate and operational certificate can be obtained location wise and payment of final 10% will be released location wise. Kindly confirm.		
350	Volume 1, Section 8: Special conditions of contract: Clause 27, Defect Liability: Page 8 - 11	Clause: The Defect Liability Period shall be twelve (12) months from the date of Operational Acceptance of facilities for all equipment/materials. We understand that Defect liability period will be applicable location wise. i.e., Defect liability period will start for a particular location on operational acceptance of that particular location. Kindly confirm	Please follow the bid documents	
351	Vol 1, Section 3, 2.5 Major Plant Item Manufacturer 1. GIS All GIS shall be from same factory.	Bidder understand, as 400kV GIS is a new requirement of PGCB, hence approval of the same will take longer time. Considering the volume & approval time bidder request PGCB to accept 400kV, 230kV & 132kV GIS from different manufacturer/ factory and also request PGCB to release separate QR document for 400kV / 230kV & 132kV GIS.	Please follow the bid documents.	
352	Vol 1, Section 3, 2.5 Major Plant Item Manufacturer 2. Power Transformer All Power transformer shall be from same factory.	Considering the Huge volume (4 No. of 750MVA 400/230/33kV and 2 No. of 520MVA, 400/132/33kV) & 24 months completion time of the project, Bidder requests PGCB to accept 750MVA & 520MVA Transformers from different Factories/ manufacturers.Kindly confirm	Please follow the bid documents.	

Approved by