



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Transmission Business Group

Materials Management, 5th Floor, Plot No.25,

Sector-16A, Noida, Uttar Pradesh, PIN No: 201301

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CORRIGENDUM - 01 TO NIT NO-75835

Dated 07.08.2023

Subject: Corrigendum-01 to Tender enquiry for Pre-bid Tie up for Supply & Services of 400 kV & 220 KV GIS FOR POWERGRID_SS20T PROJECT.

Project : Powergrid_SS20T (Jhangi & Wangtoo)
Equipment / Item : SUPPLY & SERVICES OF 400KV & 220KV GIS
Enquiry No/Date : 61G2400132 Dated 31-07-2023
BHEL NIT NO : 75835
Original Tender due date : 11.08.2023

This Corrigendum is issued by BHEL TBG against above mentioned NIT/ enquiry for issuing Technical Corrigendum-01.

Tender due date and time shall remain same (ie, 11-08-2023, 11:00 Hrs).

All other terms and conditions for this tender enquiry shall remain unchanged.

Bidder to ensure submission of offer on or before due.

Note: Tender ID in CPP Portal is **2023_BHEL_27246_1**.

Thanking you

-----Sd/-----

Gaurav Agarwal
BHEL TBG, NOIDA

Ref. No. Technical Corrigendum-01

Project: Pre Bid Tie up for,
400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC.

Date: 05.08.2023

Sl. No.	Document Description of Original Technical Specification	Technical Corrigendum-01
		Remarks, if any
1	Section-1 (PART-B) Clause [7] - Type Testing, Inspection, Testing & Inspection Certificate	Existing clause - "Unless otherwise specified elsewhere, the type test reports submitted shall be of the tests conducted within 15 (fifteen) years from the date of NOA by customer." Replaced with the following clause - "Unless otherwise specified elsewhere, the type test reports submitted shall be of the tests conducted within last 15 (Fifteen) years from the originally scheduled date of bid opening of tender of POWERGRID i.e. 12 July'2023 "
2	Section-1	Please refer Annexure- Technical Clarifications to Section-1, REV00 in addition to original Section-1 . Note: The highlighted changes are related to present scope of work and hence, these are to be noted and complied by bidders, however, bidders are requested to go through the complete document for entire understanding.

Note: Amendment/ addendum/ clarification/ corrigendum issued herein shall form part of Technical Specification. All bidders to please note that amendment/addendum/ clarification/ corrigendum issued will supersede the respective clause/ sub-clause of Technical Specification Document to the extent for the clause/ sub-clause or part thereof the amendment is issued.

Clarification No-01 dated 19.07.2023 to the Bidding Documents for Pre Bid Tie up for 400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Spec. No.: CC/T/W-GIS/DOM/A04/23/04695

S. No.	Clause ref	Description of clause	Queries asked by the bidder	POWERGRID's clarification
Volume-II; Technical Specifications				
1.	Clause no. 3 of Section-Project (Panchkula and Wangtoo ss)	Scope of work	Kindly Provide SLD/layout/GIS Hall layout of Existing Wangtoo S/S and Panchkula S/S.	Existing documents of Wangtoo and Panchkula substations shall be provided during detailed engineering.
2.	Clause 8 of Section-Project (General)	Different sections of Technical specification	In case of ambiguity in various sections of documents, kindly provide order of Precedence.	Please refer clause 8.0 of Section-Project for order of precedence.
3.	clause 3.2.2(H) of Section-Project (Panchkula ss)	LT Switchgear	Kindly confirm that sufficient space is available for placing Extn ACDB in control room.	Please refer clause 3.2.2(H), ACDB already exists at site. Bidder has to supply and mount 2nos. 63A MCCB in each section of ACDB. Necessary cabling and connections to the bays from existing LT switchgear shall be in the scope of the contractor.
4.	Clause no. 3 of Section-Project (Wangtoo and Panchkula ss)	Scope of work	Kindly provide Existing main earthmat, Trench Layout and Layout drawing for Wangtoo S/S and Panchkula S/S.	Please refer Sr. no. 1 above.

Clarification No-01 dated 19.07.2023 to the Bidding Documents for Pre Bid Tie up for 400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Spec. No.: CC/T/W-GIS/DOM/A04/23/04695

5.	Clause no. 3 of Section-Project (Jhangi ss)	Scope of work	Kindly Provide Plot Plan or coordinates of Jhangi Site.	Coordinates of Plot plan of Jhangi substation shall be provided to successful bidder during detailed engineering.
6.	Clause 10.3 of Section-Project	Specific requirement	As per available information Indian GIS Manufacturer have type tested design on 4000 A only. Kindly review the requirement.	Bidder to quote as per requirement of Bidding documents.
Volume-III; Bid Forms and Price Schedule				
7.	Schedule-3, Price Schedule		Site Name are not appearing correctly in Schedule-3 for Panchkula and Wangtoo substation. Kindly review	Refer Amendment No-01

Clarification No-02 to the Bidding Documents for Pre Bid Tie up for 400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Spec. No.: CC/T/W-GIS/DOM/A04/23/04695

S. No.	Clause ref	Description of clause	Queries asked by the bidder	POWERGRID's clarification
Volume-I; Conditions of Contract				
1.	GCC Clause No. 2.13.1(b), Section-IV: General Conditions of Contract	2.13 Notices (b) Any notice sent by special courier shall be deemed (in the absence of evidence of earlier receipt) to have been delivered ten (10) days after dispatch. In proving the fact of dispatch, it shall be sufficient to show that the envelope containing such notice was properly addressed, stamped and conveyed to the postal authorities or courier service for transmission by special courier. Provided further that whenever the postal authorities or courier service provide a proof of delivery, the same shall also be applicable for presenting the fact of dispatch.	We Request you to delete this clause as the same is detrimental to contractor interest.	The provisions of the Bidding Documents shall remain unchanged.
2.	GCC Clause No. 22.8.1 at Sr. No. 36, Section-V: Special Conditions of Contract	The Contractor's liability for latent defects warranty for (132kV/220KV/400kV/765kV class) Reactor/Transformer/ Current Transformer/ Capacitive Voltage Transformer / Circuit Breaker shall be limited to period of five (05) years from the end of Defect Liability Period.	We understand that GCC clause 22.8.1 is replaced by SCC sl. no. 37. Accordingly, Latent DLP is applicable only for (132kV/220KV/400kV/765kV class) Current Transformer/ Capacitive Voltage Transformer / Circuit Breaker/ Reactor shall be limited to period of five (05) years from the end of Defect Liability Period. Please confirm.	The provisions indicated at Sr. No. 36 of Section-V: SCC have been supplemented to the GCC Clause No. 22.8.1

Clarification No-02 to the Bidding Documents for Pre Bid Tie up for 400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Spec. No.: CC/T/W-GIS/DOM/A04/23/04695

3.	GCC Clause No. 32.1, Section-IV: General Conditions of Contract	<p>“Force Majeure” shall mean any event beyond the reasonable control of the Employer or of the Contractor, as the case may be, and which is unavoidable notwithstanding the reasonable care of the party affected, and shall include, without limitation, the following:</p> <p>(a) war, hostilities or warlike operations (whether war be declared or not), invasion, act of foreign enemy and civil war, (b) rebellion, revolution, insurrection, mutiny, usurpation of government, conspiracy, riot and civil commotion, (c) earthquake, landslide, volcanic activity, flood or cyclone, or other inclement weather condition, nuclear and pressure waves or other natural or physical disaster,</p>	Considering Covid-19 pandemic & lockdown history. We request you to include "Pandemic" in the acceptable events of force majeure.	The provisions of the Bidding Documents shall remain unchanged.
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4.	GCC Clause No. 34, Section-IV: General Conditions of Contract	<p>34. Extension of Time for Completion</p> <p>34.1 The Time(s) for Completion specified in the SCC shall be extended if the Contractor is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:</p> <p>(a) any Change in the Facilities as provided in GCC Clause 33</p> <p>(b) any occurrence of Force Majeure as provided in GCC Clause 32</p> <p>(c) any suspension order given by the Employer under GCC Clause 35 hereof or reduction in the rate of progress pursuant to GCC Sub-Clause 35.2 or</p> <p>(d) any changes in laws and regulations as provided in GCC Clause 31 or</p> <p>(e) any other matter specifically mentioned in the Contract</p> <p>by such period as shall be fair and reasonable in all the circumstances and as shall fairly reflect the delay or impediment sustained by the Contractor.</p>	<p>We request to add following clause under GCC 34, Extension of time for completion -</p> <p>In case of of any default by employer to execute any of its responsibilities under GCC 6, the Time for Completion shall be extended along with suitable cost compensation.</p>	<p>The provisions of the Bidding Documents shall remain unchanged.</p>
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5.	GCC Clause No. 35, Section-IV: General Conditions of Contract	<p>35. Suspension</p> <p>35.1 The Employer may request the Project Manager, by notice to the Contractor, to order the Contractor to suspend performance of any or all of its obligations under the Contract. Such notice shall specify the obligation of which performance is to be suspended, the effective date of the suspension and the reasons therefor. The Contractor shall thereupon suspend performance of such obligation (except those obligations necessary for the care or preservation of the Facilities) until ordered in writing to resume such performance by the Project Manager.</p> <p>.....</p> <p>.....</p>	<p>We request to add following clause as contractor's suspension rights -</p> <p>Suspension Rights - If Owner fails or delays to release the payments and or perform any other obligations under this Agreement, The Contractor may, after giving not less than [21] days' notice to Owner, suspend work (or reduce the rate of work) unless and until the Contractor has received the Payment or the breach of Owner is remedied. The Contractor's action shall not prejudice its other rights and entitlements including interest on delayed payments. If the Contractor suffers delay and/or incurs Cost as a result of suspending work (or reducing the rate of work), it shall be entitled to :</p> <p>(a) an extension of time for any such delay, if completion is or will be delayed, and (b) payment of any such Costs incurred as a result thereto.</p>	<p>The provisions of the Bidding Documents shall remain unchanged.</p>
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6.	GCC Clause No. 36, Section-IV: General Conditions of Contract	<p>36. Termination</p> <p>36.1 Termination for Employer's Convenience</p> <p>36.1.1 The Employer may at any time terminate the Contract for any reason by giving the Contractor a notice of termination that refers to this GCC Sub-Clause 36.1.</p> <p>36.1.2 Upon receipt of the notice of termination under GCC Sub-Clause 36.1.1, the Contractor shall either immediately or upon the date specified in the notice of termination</p> <p>(a) cease all further work, except for such work as the Employer may specify in the notice of termination for the sole purpose of protecting that part of the Facilities already executed, or any work required to leave the Site in a clean and safe condition</p> <p>(b) terminate all subcontracts, except those to be assigned to the Employer pursuant to paragraph (d) (ii) below</p> <p>.....</p> <p>.....</p>	<p>"We request to add following clause as contractor's termination rights -</p> <p>Termination Rights: The Contractor shall be entitled to terminate the Contract if:</p> <p>a) The breach of Owner is not remedied and/or continues despite suspension of contract by the Contractor</p> <p>b) Owner assigns, sublets or transfers this Contract in contravention to the terms of this Contract.</p> <p>c) Owner becomes bankrupt, insolvent, goes into liquidation (voluntary or otherwise), has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, an order for corporate insolvency resolution process or liquidation is passed by a court/ tribunal, change of Control, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events.</p> <p>Except in events under (c) where the termination shall be immediate, the Contractor may upon giving 14 days' notice to Owner, terminate this Contract in any of the other events listed out hereinabove, without prejudice to its other rights under contract or otherwise;</p> <p>The contractor shall be entitled to:</p> <p>i) return of all performance securities furnished by the Contractor under this Contract</p> <p>ii) payments which shall include: (a) the amounts payable for any work carried out for which a price is stated in the Contract; (b) the Cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery; (c) any other Cost or liability which in the circumstances was reasonably incurred by the Contractor in the expectation of completing the Contract (d) reasonable loss of profit."</p>	
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7.	GCC Clause No. 36.1.3, Section-IV: General Conditions of Contract	<p>36.1.3 In the event of termination of the Contract under GCC Sub-Clause 36.1.1, the Employer shall pay to the Contractor the following amounts:</p> <p>(a) the Contract Price, properly attributable to the parts of the Facilities executed by the Contractor as of the date of termination</p> <p>(b) the costs reasonably incurred by the Contractor in the removal of the Contractor's Equipment from the Site and in the repatriation of the Contractor's and its Subcontractors' personnel</p> <p>(c) any amounts to be paid by the Contractor to its Subcontractors in connection with the termination of any subcontracts, including any cancellation charges</p> <p>(d) costs incurred by the Contractor in protecting the Facilities and leaving the Site in a clean and safe condition pursuant to paragraph (a) of GCC Sub-Clause 36.1.2</p> <p>.....</p> <p>.....</p>	<p>We request to add following clause -</p> <p>In the event of termination of the Contract under GCC Sub-Clause 36.1.1, the Employer shall pay to the Contractor the following amounts:</p> <p>a)</p> <p>b)</p> <p>c)</p> <p>d)</p> <p>e)</p> <p>f) Loss of profit</p>	<p>The provisions of the Bidding Documents shall remain unchanged.</p>
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8.	GCC Clause No. 39, Section-IV: General Conditions of Contract	39. Arbitration 39.1 All disputes or differences in respect of which the decision, if any, of the Project Manager and/or the Head of the Implementing Authority has not become final or binding as aforesaid shall be settled by arbitration in the manner provided herein below:	We seek appointment of independent arbitrators (mutual appointment in case of a sole arbitrator) without reference to the panel maintained by the Employer. Pl confirms.	The provisions of the Bidding Documents are amply clear.
9.		39.2 The arbitration shall be conducted by a sole arbitrator in case the amount of claim is less than Rs. 25 Crore and by three member arbitral tribunal in case the amount of claim is greater than Rs. 25 Crore. Sole Arbitration The sole Arbitrator shall be chosen from a panel of empanelled Arbitrators maintained by POWERGRID. The same shall comprise of retired Judges and retired Senior executives of PSUs other than POWERGRID. Further, the choice of sole Arbitrator shall be governed by the amount of claim in the following manner:	We request for settlement of disputes arising out of contract or in connection with the contract, to be settled with panel of three arbitrators, one from each party and a presiding arbitrator. Also, the claim about shall not be the basis of deciding the number of arbitrators. Please confirm.	The provisions of the Bidding Documents are amply clear.

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10.	Appendix-2 (Price Adjustment), Section-VI: Sample Forms and Procedures	THE PRICES SHALL REMAIN FIRM AND FIXED DURING THE CURRENCY OF THE CONTRACT.	In view of highly volatile commodity prices. We request you to pl consider the Price variation for the contract specially for commodities dependent items including but not limited to Reactor, Circuit breaker, Instrument transformer, Structure, Cables, Conductor, Erection hardware etc.	The provisions of the Bidding Documents shall remain unchanged.
11.	Form- 6 Performance security form", Section-VI: Sample Forms and Procedures All notices to be given under shall be given by registered (airmail) posts to the addressee at the address herein set out or as otherwise advised by and between the parties hereto.	We request to replace postal clause mentioned in the BG with below text: - "All notices to be given under shall be provided by written demand from the beneficiary to be received by the bank on or before the claim expiry date (as per underlying contract) at designated place of invocation."	The provisions of the Bidding Documents shall remain unchanged.
Volume-II; Technical Specifications				
12.	Tender Specification: Volume II, Technical Specification, Section - Project	3.1.4.i Civil works	Please provide the following details for the proposed substation. 1. Overall Plot plan with General arrangement layout 2. Global co-ordinates 3. Soil investigation report (if available) 4. Contour survey (if available) In order to estimate the quantum of work.	1. Finalization of Plan and Section (showing GIS buildings, Control Room etc) based on the best engineering practices and meeting the requirements of bidding documents is in the scope of the bidder, under present scope. 2. Global coordinates

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				<p>of Jhangi ss shall be provided during detailed engineering.</p> <p>3. Soil investigation is in scope of bidder.</p> <p>4. Contour survey in the scope of bidder.</p>
13.	Tender Specification: Volume II, Technical Specification, Section - Project	3.1.4.i (a) Civil works	<p>As per referred clause, the site levelling is in bidder's scope. Kindly provide the following details in order to estimate the quantum of work.</p> <p>1. Finished Ground level for the proposed SS area</p> <p>2. High Flood Level (HFL).</p>	<p>Site leveling is in the scope of bidder. Bidder has to get HFL data from local authorities. FGL shall be finalized during detailed engineering. Bidder to quote as per BPS</p>
14.	Price schedule, schedule 3	Sl.no: 171,172,173	<p>As per referred clause of price schedule, it is mentioned that "cable trench including all type of crossing" is paid under "M" basis. Based on tender drawing, the type of cable trench shall be RCC wall with covered slab and the crossing type shall be Hume pipe. In the absence of cable trench routing layout & for this pre-bid stage, it is difficult to arrive the exact length of trench and crossing length. Kindly provide as unit rate basis ("M") in crossing quantity separately.</p>	<p>Cable Trench layout is in the scope of bidder. Bidder to quote as per BPS</p>
15.	Price schedule, schedule 3	Sl.no: 147,148,149,150	<p>As per referred clause of price schedule, it is mentioned that "drain construction including crossing" is paid under "M" basis. In the absence of drain routing layout & for this pre-bid stage, it is very difficult to arrive the exact length of drain crossing length. Kindly provide as unit rate basis("M") the crossing quantity separately.</p>	<p>Drain layout is in the scope of bidder. Bidder to quote as per BPS</p>

Clarification No-02 to the Bidding Documents for Pre Bid Tie up for 400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Spec. No.: CC/T/W-GIS/DOM/A04/23/04695

16.	Volume III, Price schedule Schedule 3	sl.no: 182	in referred price schedule, it is mentioned that "Design, Drawing and execution of Pre-fabricated structure labour Hut including toilet & baths with all materials, labours etc complete in all respect as per the technical specification and direction of Engineer-in-Charge. (Plinth area shall be measured for payment purpose)". However in tender document the technical specification is not attached. kindly provide the same in order to include required items.	Technical Specification of Labour Hut is enclosed. Refer Amendment-I enclosed
17.	Tender Specification : Volume II, Technical Specification, Section - Project	3.1.4. Civil works	As per the scope of work & price schedule, we understand that pile foundation is not envisaged in the proposed substation. If required, we trust that the same shall be paid as an additional item as per mode of measurement. Kindly confirm.	Item for Pile is not envisaged at present. However, in case if pile requirement arises after soil investigation then pile shall be paid as per provision laid in clause no 20.22 of TS
18.	Tender Specification: Volume II, Technical Specification, Section - Project	5.0 PHYSICAL AND OTHER PARAMETERS	As per referred clause, It is indicated that the Minimum ambient air temperature (°C) is -15 for proposed substation at Jhangi & -20 (°C) for Wangtoo SS. Please clarify, for MS whether we can use E250 Quality 'A' & for HT whether we can use E350 Quality 'A' steel. If not, Please indicate the quality of steel to be used for MS & for HT.	For MS E250 grade Quality'C' & for HT E350 grade Quality'C"steel is to be used for Jhangi & Wangtoo SS
19.	Tender Specification: Volume II, (Standard Technical	5.0 PHYSICAL AND OTHER PARAMETERS	As per referred clause, It is indicated that the Minimum ambient air temperature (°C) is -15 for proposed substation at Jhangi & -20 (°C) for Wangtoo SS. As per referred clause of Civil specification, 50mm thk. Puff	Confirmed

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	specification for substation -civil work), page 49 of 80 & Tender Specification : Volume II, (Section project - Scope of work), Page 12 of 18		sandwiched panel to be provided for roof & wall sheeting for GIS building. It is considered that this Roof & wall sheeting is suitable for use in the above environment. please confirm.	
20.	Tender Specification: Volume II, Technical Specification, Section - Project	5.0 PHYSICAL AND OTHER PARAMETERS	As per referred clause, It is indicated that the Minimum ambient air temperature (°C) is -15 for proposed substation site & snow fall expected. Please specify the snow thickness.	Bidder has to collect the data from local authority
21.	Tender Specification: Volume II, (Standard Technical specification for substation -civil work), page 49 of 80 & Tender Specification : Volume II,	5.0 PHYSICAL AND OTHER PARAMETERS	As per referred clause, It is indicated that the Minimum ambient air temperature (°C) is -15 for proposed substation at Jhangi & -20 (°C) for Wangtoo SS. However in Civil specification & Specific requirement for civil construction & material (grade of RCC, reinforcement, structural steel) to suit above mentioned site condition is not attached in tender document. kindly provide the specific requirement of materials & construction of civil works (if required)	Bidder may refer to TS for civil construction & material specification. For cold weather, provision of BIS: 7861, Part-II shall be followed.

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	(Section project - Scope of work), Page 12 of 18			
22.	Tender Specification: Volume II, Technical Specification, Section - Project	3.2.4 Civil works	Please provide the following drawings/details for the Existing substation at Panchkula and Wangtoo. 1. Existing GIS building architectural layout for Wangtoo 2. Existing control room building for panchkula & wangtoo 3. Existing Road/Drain layout 4. Existing Cable trench layout 5. Existing gravel spreading layout 7. Soil investigation report (if available) 8. Contour survey (if available) in order to estimate the quantum of work.	Details of existing Wangtoo and Panchkula substations shall be provided during detailed engineering.
23.	Tender Specification: Volume II, Technical Specification, Section - Project	Civil works	We trust that, the dismantling of existing road, drain, fencing and any other dismantling works in the proposed work area is not envisaged in Existing substation at panchkula and wangtoo. If it is required during detailed engineering stage, the same shall be paid as an additional item. Please confirm.	Bidder to quote as the provisions of bidding documents.
24.	Price schedule, schedule 3	Civil works sl.no-59,60,61 58,59,60	As per referred clause of price schedule, it is mentioned that "cable trench including all type of crossing" is paid under "M" basis. Based on tender drawing, the type of cable trench shall be RCC wall with covered slab and the crossing type shall be Hume pipe. In the absence of cable trench routing layout & for this pre-bid stage, it is very difficult to arrive the exact length of trench and crossing length. Kindly provide as unit rate basis ("M") in crossing quantity separately.	Cable Trench layout is in the scope of bidder. Bidder to quote as per BPS

Clarification No-02 to the Bidding Documents for Pre Bid Tie up for 400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Spec. No.: CC/T/W-GIS/DOM/A04/23/04695

25.	Price schedule, schedule 3	Civil works SL.no-50,51,52,53	As per referred clause of price schedule, it is mentioned that "drain construction including crossing" is paid under "M" basis. In the absence of drain routing layout & for this pre-bid stage, it is very difficult to arrive the exact length of drain crossing length. Kindly provide as unit rate basis("M") the crossing quantity separately.	Drain layout is in the scope of bidder. Bidder to quote as per BPS
26.	Tender Specification : Volume II, Technical Specification, Section - Project	Civil works	As per the scope of work & price schedule, we understand that pile foundation is not envisaged in the proposed substation. If required, we trust that the same shall be paid as an additional item as per mode of measurement. Kindly confirm.	Item for Pile is not envisaged at present. However, in case if pile requirement arises after soil investigation then pile shall be paid as per provision laid in clause no 20.22 of TS
27.	Tender Specification : Volume II, Technical Specification, Section - Project	Civil works	As per the price schedule, we understand that Excavation for in hard rock which require blasting is not envisaged in the proposed substation at Panchkula. If required, we trust that the same shall be paid as an additional item as per mode of measurement. Kindly confirm.	Confirmed
28.	Tender Specification : Volume II, Technical Specification, Section - Project	Civil works	As per the scope of work & price schedule, we understand that Road & Drain work is not envisaged in the proposed substation at Panchkula. If required, we trust that the same shall be paid as an additional item as per mode of measurement. Kindly confirm.	Confirmed
29.	Tender Specification : Volume II,	Civil works	As per the scope of work & price schedule, we understand that Soil Investigation is not envisaged in the proposed substation at Panchkula.	Confirmed

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	Technical Specification, Section - Project		If required, we trust that the same shall be paid as an additional item as per mode of measurement. Kindly confirm.	
30.	Tender Specification : Volume II, Technical Specification, Section - Project	Approach Road	We trust that, the approach road shall be bitumen type (3.75m wide) as per tender drawing C/ENGG/BITM/ROAD/01. However, ROW clearance will be in PGCIL Scope. Please confirm. Also, any additional approach road development works like retaining wall, Stone Masonry wall, Gabion wall, dry stone pitching etc. and associated works shall be paid as an additional item. Please confirm.	Confirmed
31.	Tender Specification: Volume II, Technical Specification, Section - Project	Civil works	As per the price schedule, we understand that chemical & open blasting are permitted in the proposed substation at Jhangi and any permission required from concerned authorities is in PGCIL Scope. Also, disposal of surplus rock beyond substation boundary of 2.0 Km shall be additionally payable as new item. Kindly confirm.	Bidder to quote as the provisions of bidding documents. Disposal of surplus rock: Confirmed. Please refer clause no 5.5 of Section-Civil Works of TS for disposal of excavated material.
Jhangi ss				
32.	General	-	Kindly provide the following drawings for proposed 400/220kV JHANGI GIS Substation. 1. Tentative GA Layout indicating plot/boundary dimensions. 2. Plot co-ordinates of all corners 3. Typical 400kV & 220kV GIS building layout 4. Typical Control room building layout	Finalization of SLD, Layout Plan and Section (showing GIS buildings, Control Room etc) based on the best engineering practices and meeting

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			4. SLD for the proposed substation	<p>the requirements of bidding documents is in the scope of the bidder, under present scope.</p> <p>Coordinates of Plot plan of Jhangi substation shall be provided to successful bidder during detailed engineering.</p>
33.	Clause 3.1 and 10.9 & 10.10 of Section Project	<p>Clause 10.9: Space for future 02 nos. diameter in addition to the present scope shall also be constructed by the Contractor....</p> <p>Clause 10.10: Space for future 06 nos. bays in addition to the present scope shall also be constructed by the Contractor..</p>	As per the referred clause 12 Nos 400kV GIS bay modules and 15 Nos 220kV GIS bay modules are envisaged in future scope. Also, as per Clause 10.9 and 10.10 of SPECIFIC REQUIREMENT space for only 2 diameters for 400kV and 6 bays for 220kV is envisaged. Whether space to be considered for complete future bays as per section project or only for mentioned bays as per specific requirement for design of GIS buildings. Please confirm the exact space requirement to be considered for design of both 400kV and 220kV GIS buildings.	<p>CONSTRUCTION OF BUILDING UNDER PRESENT SCOPE: Future space is to be considered for 2 nos. diameter for 400kV system and 6 nos. bays for 220kV system for.</p> <p>FUTURE BAYS MENTIONED AT CLAUSE NO. 3.1 OF SECTION PROJECT: For the calculation of capacity of Battery/Battery charger, CRP, SAS, VMS etc in line with technical specification.</p>

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34.	Section project - Clause 3.1 and 10.9 & 10.10	SCOPE OF WORK	In continuation to above query, we presume that GIB, Sf6 to air bushings need not be considered for future bays. Please confirm whether bidder understanding is correct.	Only space provision for future bays are envisaged under present scope.
35.	Sl. No 13 and 14 of Sch I of BPS	420 kV, 4000 A, 63 kA, SF6 GIS Line feeder bay module(with PIR) as per Section-Project, Technical specification. 420 kV, 4000 A, 63 kA, SF6 GIS Line feeder bay module(without PIR) as per Section-Project, Technical specification	As per BOQ, line bays and its tie bays are with and without PIR. Please confirm the following line lengths since PIR is applicable only for long lines (more than 200 kMs) as per CEA guidelines. a) Jhangi - Wangtoo D/C b) Jhangi - Shongtong	Bidder to quote as per provision of BPS/bidding document.
36.	BPS Sl.No. 13, 14 Section project - Clause 3.1	420 kV, 4000 A, 63 kA, SF6 GIS Line feeder bay module(with PIR) as per Section-Project, Technical specification. 420 kV, 4000 A, 63 kA, SF6 GIS Line feeder bay module(without PIR) as per Section-Project, Technical specification	As per referred line item, the number of line feeder bay module given is 3 Nos. as against the requirement of 2 Nos of 400kV line bays mentioned in section project. Please confirm the exact requirement of GIS line bay modules to be supplied under present scope of works.	Bidder to quote as per BPS.
37.	Section project - Clause 10.9 &10.10	Clause 10.9: Space for future 02 nos. diameter in addition to the present scope shall also be constructed by the Contractor.... Clause 10.10: Space for future 06 nos. bays in addition to the present scope shall also be constructed by the	As per referred clause, we presume that there is no separate room envisaged for C&R and communication panels for 400kV and 220kV GIS. Same shall be placed inside GIS building itself. Please confirm whether bidder understanding is in line with specification requirement.	Space provision shall be kept in Relay panel room of 400kV and 220kV GIS building under present scope.

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		Contractor..		
38.	Section project - Clause 10.9 &10.10	Clause 10.9: Space for future 02 nos. diameter in addition to the present scope shall also be constructed by the Contractor.... Clause 10.10: Space for future 06 nos. bays in addition to the present scope shall also be constructed by the Contractor..	As per referred clause, whether GIS bay modules, indoor bus duct need to be considered for the respective number of future bays mentioned. Please confirm.	Bidder to quote as per BPS.
39.	Section project - Clause 3.1	SCOPE OF WORK	As per referred clause, "For future Feeder, 400KV GIS bus duct shall be brought outside of the GIS hall and provided with end Piece (Interface) module suitably with isolating test link under present scope for future connections. Associated end piece (Interface) module shall be deemed to be part of outdoor bus duct." Please clarify number of future feeders to be considered.	Here "Future feeder" refers to bay to complete diameter in one & half breaker switching scheme of 400kV GIS under present scope. Bidder to quote as per BPS.
40.	Section project - Clause 2.0 A & B Clause 3.1.1 H	PLCC equipment	As per referred clause, a) From Jhangi S/S there are two outgoing lines, one to Wangtoo S/S and one to Shongtong S/S, b) From Wangtong S/S there are four outgoing lines, two to Panchkula S/S, one to Jhangi S/S and one to Shongtong S/S, c) From Panchkula two outgoing lines are going to Wangtoo S/S. Please confirm whether bidder understanding is in line with specification requirement.	Confirmed.

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41.	Clause 2.0 A & B of Section Project	Associated Transmission System	As per referred clause, Section Project Cl. 2.0 A) ii) 400kV Jhangi PS - Wangtoo (Quad) D/c line (Line capacity shall be 2500 MVA per circuit at Nominal voltage). B) i) LILO of one circuit of Jhangi PS - Wangtoo (HPPTCL) 400 kV D/c (Quad) line\$ at generation switchyard of Shongtong HEP. Please confirm if the Wangtoo S/S mentioned in Section Project Cl. 2.0 A) ii) is part of HPPTCL	Confirmed
42.	Clause 5.2 of Section project	PHYSICAL AND OTHER PARAMETERS	As per referred clause, For 400/220kV Wangtoo Substation: Min./Max. Design Ambient Temperature: -20 / 50 degree centigrade (TO BE CHANGED) Please confirm the exact design temperature to be considered for proposed substation.	For 400/220kV Wangtoo Substation: for the purpose of Design, Min./Max. Design Ambient Temperature shall be considered as -20/50 degree centigrade respectively. Bidder to quote accordingly.
43.	General	-	We presume that Earthing, DSLP, Lighting, Cable trench & other associated works are required to be executed only for the present scope of works and the same are not required for future bays and unused area. Please confirm.	For outdoor S/Y, Earthing, DSLP, Lighting, Cable trench & other associated works is envisaged for present scope of works only. For GIS Buildings, respective technical parameters shall be considered as per bidding document.

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44.	General	-	Please provide the Minimum number of rooms, number of floors & their area requirements which need to be considered in Control room building design.	The requirements of room & number of floors shall be finalized during detailed engineering. Bidder to quote as per provisions of bidding documents.
45.	General	-	Please confirm whether both Integrated or Standalone LCC are acceptable based on the manufacturer standard for the Proposed 400KV and 220KV GIS.	Both Integrated or Standalone LCCs are acceptable
46.	General	-	We presume that no work is envisaged at remote end (RLDC/ Backup RLDC) under the present scope. Also, we understand that there is no scope of works at remote end substation other than the proposed Jhangi Substation . Please confirm.	Please refer clause 3.1.2 (G) & 3.3.2 (D) of Section Project. Further no work is envisaged at Shongtong end for remote operation from RLDC/ Backup RLDC /NTAMC/ Backup NTAMC/ RTAMC under the present scope.
47.	General	-	Please furnish the line lengths for the following lines in order to choose the appropriate protection & communication interfaces: a) Jhangi - Wangtoo D/C b) Jhangi - Shongtong c) Wangtoo - Panchkula D/C d) Wangtoo - Shongtong S/C	Line length shall be provided to successful bidder during detailed engineering.
48.	General	-	Please furnish the following details w.r.t existing SAS/RTU: a) Model number b) Number of spare IO cards available	Jhangi ss is new substation to be constructed. New Substation Automation

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			c) Existing SAS Architecture drawing	System as per Technical specification is in Bidder's scope. For extension Substations, details shall be provided during detail engineering. Bidders may visit respective sites for more details.
49.	General	-	Please provide Type, size & configuration of the conductors/ Aluminum tube used for a) Main bus conductor b) Jack bus c) Equipment bus/ jumpers	Please refer clause M (5) of Annexure III (Specific requirement Rev 07).
50.	General	-	We propose the Main protection as Distance protection for all 400kV /220kV lines. a) If differential protection need to be considered, please clarify the scope of remote end differential relays (supplied as loose)? b) If remote end differential relays are already available, please confirm the make & model number.	Bidder to quote as per provision of BPS/bidding document.
51.	General	-	As per section project, it is mentioned as "Minimum specified creepage distance for insulator string/ longrod insulators/ outdoor bushings shall be 31 mm/kV". We presume that except mentioned insulator string/longrod insulators/outdoor bushings, all other outdoor equipment such as CB, CVT, LA, CT & BPI etc. shall have 25mm/kV creepage. Please confirm whether bidder understanding is correct.	Bidder to quote as per provision of BPS/bidding document. Required altitude correction factor is to be considered in line with associated IEC/IS.

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52.	General	-	In case of contradiction between Section-Project & BPS, we presume the requirements as per BPS shall be followed. Please confirm.	Confirmed. However, the rating of equipment in BPS is to be read in line with Section-Project / Technical specification.
Wangtoo SS				
53.	Clause 3.3 of Section project	Establishment of 400kV Wangtoo (GIS) substation	As per scope of work, Extension of 400KV GIS is in scope. In this regard, please provide the following inputs for existing Station a) Please provide free space available inside the GIS Hall along with the length & width available for bay extension. b) Please confirm the availability of interface/extension module in the existing 400kV GIS. c) Please provide the Make and Model number of existing GIS	Details of existing Wangtoo substation shall be provided during detailed engineering. Bidder to quote as per provision of BPS/bidding document.
54.	Existing Tele communication equipment	-	Please provide the following details at existing Wangtoo S/S i) Make ii) Model number iii) Transmission capacity (STM-1/SM-4/STM-16) iv) Number of spare tele protection interface cards/ data interface cards/ speech interface cards v) Existing drawings of architecture	Bidder to quote as per BPS. However, Bidder is recommended to do survey for existing system.
55.	Existing Substation details	-	Please provide the following inputs/Drawings for 400kV bay extension work at existing stations: a) Existing GIS Building Plan and section view b) Existing Earthmat layout c) Existing cable trench layout d) Existing GIS SS overall layout e) Existing Lightning Protection (DSLIP) Layout f) Existing Outdoor Illumination Layout	Please refer Sr. no. 53 above.

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			g) Visual monitoring system (VMS) layout	
56.	Existing Building/Trench details	-	As per the inputs received from PGCIL, please clarify the following: a) We presume that Control building/GIS building extension works is not in our scope of work & the same has already been constructed for proposed scope of work. Sufficient space is already available for present scope of bays. Please confirm. b) We presume that outdoor cable trench and indoor cable trench are excluded from our scope. Please confirm	Control room building/GIS building extension works is not envisaged for Wangtoo SS.
57.	General	-	Please provide the existing GIS Building drawings (Architectural & structural drgs.) of 400KV GIS Wangtoo Substation and confirm whether existing GIS building is RCC/ PEB type?	For extension Substations, details shall be provided during detail engineering. Bidders may visit respective sites for more details.
58.	General	-	As the 400kV is existing, please provide the following details w.r.t existing Busbar Protection: a) Make & Model number b) Centralized or Decentralized type? c) If decentralized type, whether Bay units are already available for the bays proposed under this package.	Please refer clause 3.3.2 (C) of Section Project.
59.	General	-	Please check the following w.r.t Control & Automation: a) Make & Model number of SAS b) Existing Architecture drawing	Please refer clause 3.3.2 (D) of Section Project. Architecture drawing of existing stations shall be provided to successful bidder during detailed

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				engineering.
60.	General	-	We presume that spare feeders are already available in existing ACDB, 110/220V DCDB and 48V DCDB for proposed bays. We are not considering any new AC and DC boards and also extension of existing AC and DC boards in the present scope of works. Please confirm	Confirmed.
61.	General	-	We propose the Main protection as Distance protection for all 400kV lines. a) If differential protection need to be considered, please clarify the scope of remote end differential relays (supplied as loose)? b) If remote end differential relays are already available, please confirm the make & model number.	Bidder to quote as per provision of BPS/bidding document.
62.	General	-	As per section project, it is mentioned as "Minimum specified creepage distance for insulator string/ longrod insulators/ outdoor bushings shall be 31 mm/kV". We presume that except mentioned insulator string/longrod insulators/outdoor bushings ,all other outdoor equipment such as CB,CVT,LA,CT & BPI etc. shall have 25mm/kV creepage. Please confirm whether bidder understanding is correct.	Please refer. Sr. no. 31 above.
63.	General	-	In case of contradiction between Section-Project & BPS, we presume the requirements as per BPS shall be followed. Please confirm.	Please refer. Sr. no. 52 above.
64.	General	-	We presume that spare feeders are available in existing ACDB , 110/220V DCDB and 48V DCDB for proposed bays. Please confirm	Please refer Sr. no. 60 above.

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Panchkula SS				
65.	Section-Project: clause 3.2 D) Sub station Automation System	Substation Automation System	As per referred clause in section project, we presume that no work is envisaged at remote end (RLDC/ Backup RLDC /RTAMC/ NTAMC / Backup NTAMC) under the present scope. Please confirm whether bidder understanding is in line with specification requirement.	Please refer clause 3.2.2 (D) of Section Project.
66.	Clause 3.2.2 O) The lightning protection of Section-Project:	The lightning protection (DSLPL):	As per referred clause, it is mentioned as " <i>The lightning protection (DSLPL) for complete switchyard is to be provided by the contractor. The contractor shall design the lightning protection by utilizing the structures being provided under present scope</i> ". Hence, we presume that the DSLPL coverage shall be provided for bays under present scope of work only. Please confirm.	Confirmed.
67.	Clause 3.2.2 Q) of Section-Project	Tele Communication equipment	We understand that NMS integration is limited to Panchkula substation end configuration only. Any work at central NMS server is not in the present scope of bidder. Kindly confirm.	At Remote End/SS End: Bidder has to provide Telecom Equipment which can be integrated in the existing NMS. Configuration work for necessary integration with existing NMS in supplied FOTE shall be in scope of Bidder. At NMS Server End: Existing NMS Provider/Support team will do the necessary integration/Configuration in existing NMS, However, all necessary

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				support to integrate new Telecom equipment in the existing NMS shall be ensured by the Bidder.
68.	Clause 3.2.2 Q) of Section-Project	Tele Communication equipment	As per referred clause, Integration with the existing communication system shall be in the scope of bidder. In this regard, please provide the following details a) Make and model of FOTE equipment b) Transmission capacity (STM-1/SM-4/STM-16) c) Number of spare teleprotection interface cards/data interface cards/speech interface cards d) Existing communication drawing	Please find following details for Panchkula a) Make: Tejas Model: TJ1400 b) Transmission capacity: STM-16 c) Bidder to do survey for no. of spare interface cards. d) Existing communication drawing shall be provided during detailed engineering.
69.	Clause 3.2 of Section-Project	Extension of 400kV Panchkula substation	Please provide the following drawings Panchkula substation existing i) Existing control building layout ii) Visual monitoring system (VMS) layout iii) Lightning protection layout. iv) Existing Outdoor Illumination Layout	Drawings of existing Panchkula substation shall be provided to successful bidder during detailed engineering.
70.	Clause 3.2.2 Q) of Section-Project	Tele Communication equipment	Please provide the following details at existing Panchkula S/S i) Make ii) Model number iii) Transmission capacity (STM-1/SM-4/STM-16) iv) Number of spare teleprotection interface cards/ data interface	Please find following details for Panchkula i) Make: Tejas ii) Model: TJ1400 iii) Transmission

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			cards/ v) Existing drawings of architecture speech interface cards	capacity: STM-16 iv) Bidder to do survey for no. of spare interface cards. v) Existing communication drawing shall be provided during detailed engineering.
71.	Clause 3.2 of Section-Project	Extension of 400kV Panchkula substation	Please furnish the line lengths for the following lines in order to choose the appropriate protection & communication interfaces: a)Wangtoo - Panchkula D/C	Line length shall be provided to successful bidder during detailed engineering. Bidder to quote as per provision of Bidding document.
72.	Clause 3.2.2.(C) of Section-Project	Control and Protection System	As the 400kV is existing, please provide the details of 400kV bus bar protection system. a) Make & Model number b) Centralized or Decentralized type? c) If decentralized type, whether Bay units are already available for the bays proposed under this package.	Please refer clause 3.2.2 (C) of Section Project.
73.	Clause 3.2 of Section-Project	Extension of 400kV Panchkula substation	We are not considering any 220V and 48V Battery and battery charger for present scope of works. We presume that existing battery and battery chargers are already sized by considering future extension of bays which were under present scope of works	Battery and Battery charger are not envisaged under present scope.
74.	Clause 3.2.2.(C) of Section-Project	Control and Protection System	We propose the Main protection as Distance protection for all 400kV lines. a) If differential protection need to be considered, please clarify the scope of remote end differential relays (supplied as loose)? b) If remote end differential relays are already available, please	Differential protection is not envisaged under present scope of work.

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			confirm the make & model number.	
75.	General	-	As per section project, it is mentioned as "Minimum specified creepage distance for insulator string/ longrod insulators/ outdoor bushings shall be 31 mm/kV". We presume that except mentioned insulator string/longrod insulators/outdoor bushings, all other outdoor equipment such as CB,CVT,LA,CT & BPI etc. shall have 25mm/kV creepage. Please confirm whether bidder understanding is correct.	Confirmed.
76.	General	-	In case of contradiction between Section-Project & BPS, we presume the requirements as per BPS shall be followed. Please confirm.	Please refer Sr. no. 52 above.
77.	Clause 3.2.2(H) of Section Project	LT Switchgear	We presume that spare feeders are available in existing ACDB, 110/220V DCDB and 48V DCDB for proposed bays. Please confirm	Please refer clause 3.2.2(H) of Section Project, ACDB already exists at site. Bidder has to supply and mount 2nos. 63A MCCB in each section of ACDB. Necessary cabling and connections to the bays from existing LT switchgear shall be in the scope of the contractor. Further, spare feeders are available for 220V and 48V DCDB.

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78.	Clause 3.1 W), 3.2 R), 3.3 O) PMU of Section-Project	-	<p>As per referred clause, it is mentioned as "The broad Scope of the procurement of PMU shall include planning, designing, engineering, supply, transportation, insurance, delivery at site, unloading, handling, storage, installation, termination, testing and demonstration for acceptance, commissioning, and documentation for PMU as per BPS. The PMUs shall comply with the latest version of IS 60255-118-1-2018 and IEEE C 37.118 protocols. The PMUs shall be integrated with Phasor data Concentrator (PDC) at respective Regional Load Dispatch Centre (RLDC)/ State Load Dispatch Centre (SLDC). The Bidder shall extend technical support at local end for seamless integration of PMU with PDC at RLDC/SLDC. The integration work at RLDC/SLDC end will not be under the scope of the Bidder." However, we understand the same as follows: 1)PMU integration with PDC at RLDC/SLDC end is not the present scope of bidder. 2)Technical support shall be extended for seamless integration with PDC at local end. In this regard, please specify the make & model of Phasor Data concentrator at RLDC/SLDC.</p> <p>Further, we are not envisaging any hardware upgradation/new supply/Software upgradation at PDC. Please confirm.</p>	<p>The Bidder shall provide technical support at substation end for seamless integration of PMU with PDC at RLDC/SLDC. The integration work at RLDC/SLDC end will not be under the scope of the Bidder. The existing PDC software/application at RLDC/SLDC is of M/s GE make.</p>
79.	Section project, Cl.No-3.1 b)	<p>For future Feeder, 400KV GIS bus duct shall be brought outside of the GIS hall and provided with end Piece (Interface) module suitably with isolating test link under present scope for future connections...</p>	<p>As per referred clause, for future Feeder, "400KV GIS bus duct shall be brought outside of the GIS hall and provided with end Piece (Interface) module suitably with isolating test link under present scope for future connections. Associated end piece (Interface) module shall be deemed to be part of outdoor bus duct. Outdoor Bus duct including end piece (Interface) module for future bay, shall be measured from outer edge of the wall of the existing 400kV GIS Hall/Building & Shall be paid separately, against respective BPS items".</p>	<p>Bidder to quote as per BPS.</p>

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			In this regard, please provide for how many number of future feeders outside 400kV GIS bus duct shall be considered and also confirm for which future line/transformer/reactor feeder same shall be considered.	
80.	Section project, Cl. No-3.1 a)	Scope of work	As per referred clause, we presume that future tie bays shall be 4 Nos for 400kV level. Please confirm whether bidder understanding is correct.	Bidder to quote as per BPS.
81.	Section project, Cl. No-3.1.2 A) & 3.3.2 A)	400kV & 245kV Gas Insulated Switchgear (Jhangi ss) 400kV Gas Insulated Switchgear (Wangtoo SS)	As per referred clause, "a) 420kV & 245 kV GIS modules/Equipment as per BPS and description given in Annexure-III. b) 420kV & 245 kV SF6 Gas Insulated SF6 to Air termination as per description given in Annexure-III c) 420kV & 245 kV class outdoor bus duct as per description given in Annexure-III". However Annexure-III related to specific requirement. we presume that module/GIS description shall be as per Annexure-IV instead of Annexure-III. Please confirm whether bidder understanding is correct.	Confirmed. Annexures shall be referred as mentioned below: Annexure I: List of drawing Annexure II: Mandatory spares breakup Annexure III: Specific requirement, Rev 07. Annexure IV: Standard GIS module description Annexure V: Technical particulars of 41.67 MVAR Reactor
82.	Annexure-IV, 420kV Gas Insulated Switchgear (One & half breaker breaker Scheme) i) to	One (1) number 3-phase, SF6 insulated circuit breaker (#) with/without PIR complete with operating mechanism...	As per referred module descriptions, we understand that single phase encapsulated design shall be offered for 400kV GIS. Hence, 3 Nos. single phase, SF6 gas insulated CB complete with operating mechanism shall be considered instead of One (1) number 3-phase, SF6 insulated circuit breaker without PIR, complete with operating mechanism as per the referred clause. Please confirm.	Single phase encapsulated design is also acceptable.

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	xii)			
83.	Annexure-IV, 420kV Gas Insulated Switchgear (One & half breaker Scheme) i) to xii)	<p>Three (3) numbers, 3-phase, single pole, group operated isolator switches, complete with manual and motor driven operating mechanisms.</p> <p>Two (2) numbers 3-phase, single pole, group operated safety grounding switches, complete with manual and motor driven operating mechanisms.</p> <p>One (1) number 3-phase, single pole, group operated high speed fault making grounding switch, complete with manual and motor driven operating mechanisms.</p>	In continuation to the above query, we understand that single phase encapsulated design shall be offered for 400kV GIS. Hence single-phase group operated isolator switches, single phase group operated safety grounding switches and single-phase group operated high speed earthing switch shall be considered. Please confirm.	This is also acceptable.
84.	Annexure-IV, 245 kV Gas Insulated Switchgear (Double Main Busbar Scheme) i) to vii)	Mandatory spares 400kV GIS	<p>As per referred clause, it is mentioned as " ii. Three (3) numbers 3-phase, group operated isolator switches complete with manual and motor driven operating mechanisms. iv. Two (2) numbers 3-phase, group operated safety grounding switches, complete with manual and motor driven operating mechanisms".</p> <p>One no. 3 phase group operated isolator switch without safety grounding switch and two numbers group operated isolators with combined safety earthing switch shall be provided as per the above referred clause for 220kV GIS. Please confirm.</p>	Bidder's understating is generally in order, subject to meeting the overall requirement of Disconnectors & Earth Switch as per module description.

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85.	SECTION-GENERAL TECHNICAL REQUIREMENTS (GTR), Cl.No-6.2.1.2	One or more adequately rated thermostatically connected heaters shall be supplied to prevent condensation in any compartment. The heaters shall be installed in the compartment and electrical connections shall be made sufficiently away from below the heaters to minimize deterioration of supply wire insulation	As per referred clause, "One or more adequately rated thermostatically connected heaters shall be supplied to prevent condensation in any compartment. The heaters shall be installed in the compartment and electrical connections shall be made sufficiently away from below the heaters to minimize deterioration of supply wire insulation". Please confirm whether Space heaters shall be provided in LCC and operating mechanism are acceptable.	This is also acceptable.
86.	Technical Specification Gas Insulated Switchgear Rev 05A, Cl.No-27	Testing & Maintenance equipment shall be offered, as per relevant schedule of BPS.	We presume that Testing & Maintenance equipment shall be offered, as per relevant schedule of BPS.	Confirmed. However, Contractor is also to refer to Clause 14.2 of GTR, reproduced below: <i>The contractor shall supply all special tools and tackles required for Operation and maintenance of equipment. The special tools and tackles shall only cover items which are specifically required for the equipment offered and are proprietary in nature. The list of special tools and tackles, if any, shall be finalized during detail engineering and the same shall be supplied without any additional cost</i>

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				<i>implication to the Employer</i>
87.	BPS Jhangi Substation, Sl.No. 13 & 16 Wangtoo SS - Sl. No. 4 & 5	420 kV, 4000 A, 63 kA, SF6 GIS Line feeder bay module (with PIR) as per Section-Project, Technical specification 420kV, 4000 A, 63 kA, SF6 GIS Tie bay module (with PIR) as per Section-Project, Technical specification	We are requesting PGCIL to kindly accept controlled Switching Device (CSD) in place of PIR as per experience of previous PGCIL TBCB executed projects.	Bidder to quote as per provision of Bidding document.
88.	BPS Jhangi Substation, Sl. no. 164 & 217 Wangtoo SS: Sl. No. 58	LOCKING DEVICE TO KEEP THE DIS-CONNECTORS (ISOLATORS) AND EARTHING/FAST EARTHING SWITCHES IN CLOSE OR OPEN POSITION IN CASE OF REMOVAL OF THE DRIVING MECHANISM-400KV GIS	When the operating mechanism of the disconnecter or earthing switch is removed, the contacts cannot be disturbed from outside as per OEM design. Hence, we do not envisage the requirement of locking device. Please confirm	As per clause 9.0 of Section Project, "The component/subcomponent of an equipment/item specified in BPS under Mandatory Spare, which is not applicable as per the offered design of respective main equipment, shall not be referred to." However, these details shall be finalized during detailed engineering stage based on design of Manufacture. Accordingly, bidder to quote as per BPS.

Clarification No-02 to the Bidding Documents for Pre Bid Tie up for 400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Spec. No.: CC/T/W-GIS/DOM/A04/23/04695

89.	BPSJhangi Substation, Sl. No. 177 to 186 and 187 to 190Sl.No. 231 to 240 and 241 to 244Wangtoo SS : Sl. No. 71 to 80 & 82 to 84	Mandatory spares 400kV GIS	We presume that bidder can exclude Hydraulic mechanism, Hydraulic-spring operated mechanism spares if bidder offered spring operated mechanism for CB. Please confirm whether bidder understanding is correct.	Please refer our reply at S.No 88 above.
90.	BPS Jhangi Substation, Sl. No. 194,195 & 196 Sl. no. 250, 251 & 252 Wangtoo SS : Sl. No. 88,89 & 90	Mandatory spares 400kV GIS	Bidder can Propose interlocks are all electrical with pad locking arrangement. Key interlock, drive control cards is not applicable. Spares applicable for the offered scope shall be considered. Please confirm.	Please refer our reply at S.No 88 above.
91.	Section project, Cl. No-3.1 b) and as per BPS Jhangi substation, Sl.No-11	420KV, 4000A, 63KA SF6 TO AIR BUSHING	As per scope of work and as per BPS, we presume that we need to provide SF6 to air bushing for present scope (ICT bays: 2 nos. Bus Reactor bay: 1 no, Line Bays: 2 nos along with one single phase transformer and one single phase reactor) and for future one line bay. Based on this total requirement of SF6 to air bushing shall be 20 Nos. However as per the BPS same is mentioned as 17 Nos. Please check and revise your quantity.	Bidder to quote as per BPS.

Clarification No-03 to the Bidding Documents for Pre Bid Tie up for 400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Spec. No.: CC/T/W-GIS/DOM/A04/23/04695

S. No.	Clause ref	Description of clause	Queries asked by the bidder	POWERGRID's clarification
Volume-II; Technical Specifications				
1.	Clause 3.1 of Section Project (Jhangi SS)	400/220kV Jhangi GIS Pooling Station	Request for SLD and layout drawings to understand the feeders in each dia for 400kV.	Finalization of SLD, Layout Plan and Section (showing GIS buildings, Control Room etc) based on the best engineering practices and meeting the requirements of bidding documents is in the scope of the bidder, under present scope.
2.	Clause 3.1 of Section Project (Jhangi SS)	For future Feeder, 400KV GIS bus duct shall be brought outside of the GIS hall and provided with end Piece (Interface) module suitably with isolating test link under present scope for future connections. Associated end piece (Interface) module shall be deemed to be part of outdoor bus duct. Outdoor Bus duct including end piece (Interface) module for future bay, shall be measured from outer edge of the wall of the existing 400kV GIS Hall/Building & Shall be paid separately, against respective BPS items.	Request to clarify which line feeder is having outdoor GIB as future.	Bidder to quote as per BPS. Further, here "Future feeder" refers to bay to complete diameter in one & half breaker switching scheme of 400kV GIS under present scope.
3.	Clause 3.1 of Section Project (Jhangi SS)	Establishment of 7x105 MVA, 400/220kV Jhangi GIS Pooling Station	Please clarify whether space for future bays for both kV levels to be considered for building sizing. For 400kV, being 1.5 CB scheme, future tie bays are not appearing in this list. Please provide the	CONSTRUCTION OF BUILDING UNDER PRESENT SCOPE: Future space is to be considered for 2 nos. diameter for 400kV system and 6 nos. bays for 220kV system for. FUTURE BAYS MENTIONED AT

Clarification No-03 to the Bidding Documents for Pre Bid Tie up for 400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Spec. No.: CC/T/W-GIS/DOM/A04/23/04695

			quantity of tie bays to include.	CLAUSE NO. 3.1 OF SECTION PROJECT: For the calculation of capacity of Battery/Battery charger, CRP, SAS, VMS etc in line with technical specification.
4.	Clause No-3.1.2 A) & 3.3.2 A) Section project (Jhangi & Wangtoo SS)	400kV & 245kV Gas Insulated Switchgear (Jhangi ss) 400kV Gas Insulated Switchgear (Wangtoo SS)	For SS20T, the annexure to be referred for description is Annexure-IV. Please clarify. Applicable bay module descriptions as per BPS shall be considered for quoting.	Confirmed. Further, Bidder to quote as per BPS.
5.	Clause 3.2.3 of Section Project (Panchkula SS)	Mandatory Spares specified as LOT in BPS shall be as per Annexure-IV.	We will consider GIS spares list as per BPS. Please confirm.	Since Panchkula is AIS substation, no GIS spares have been envisaged at Panchkula substation.
6.	Clause 3.2.4 of Section Project (Panchkula SS)	Civil works	Excluded from GIS supplier's scope.	GIS is not envisaged at Panchkula substation.
7.	Annexure-IV, 420kV Gas Insulated Switchgear (One & half breaker Scheme) i) to xii) (Jhangi & Wangtoo SS)	One (1) number 3-phase, SF6 insulated circuit breaker (#) with/without PIR complete with operating mechanism...	We offer single phase encapsulated design for 400kV GIS. Hence, 3 Nos. single phase, SF6 gas insulated CB complete with operating mechanism shall be considered.	Single phase encapsulated design is also acceptable.
8.	Annexure-IV, 420kV Gas Insulated Switchgear (One & half breaker Scheme)	Three (3) numbers, 3-phase, single pole, group operated isolator switches, complete with manual and motor driven operating mechanisms.	We offer single phase encapsulated design for 400kV GIS. Hence single-phase group operated isolator switches, single	This is also acceptable.

Clarification No-03 to the Bidding Documents for Pre Bid Tie up for 400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Spec. No.: CC/T/W-GIS/DOM/A04/23/04695

	i) to xii) (Jhangi & Wangtoo SS)	Two (2) numbers 3-phase, single pole, group operated safety grounding switches, complete with manual and motor driven operating mechanisms. One (1) number 3-phase, single pole, group operated high speed fault making grounding switch, complete with manual and motor driven operating mechanisms.	phase group operated safety grounding switches and single-phase group operated high speed earthing switch shall be considered.	
9.	Annexure-IV, 245 kV Gas Insulated Switchgear (Double Main Busbar Scheme) i) to vii) (Jhangi SS)	245 kV Gas Insulated Switchgear (Double Main Busbar Scheme)	One no. 3 phase group operated isolator switch without safety grounding switch and two numbers group operated isolators with combined safety earthing switch shall be provided.	Bidder's understating is generally in order, subject to meeting the overall requirement of Disconnectors & Earth Switch as per module description.
10.	SECTION-GENERAL TECHNICAL REQUIREMENTS (GTR), Cl.No-6.2.1.2 (Jhangi & Wangtoo SS)	One or more adequately rated thermostatically connected heaters shall be supplied to prevent condensation in any compartment. The heaters shall be installed in the compartment and electrical connections shall be made sufficiently away from below the heaters to minimize deterioration of supply wire insulation.	Space heaters shall be provided in LCC and operating mechanism.	This is also acceptable.

Clarification No-03 to the Bidding Documents for Pre Bid Tie up for 400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Spec. No.: CC/T/W-GIS/DOM/A04/23/04695

11.	Technical Specification Gas Insulated Switchgear Rev 05A, Cl.No-27 (Jhangi & Wangtoo SS)	Testing & Maintenance equipment shall be offered, as per relevant schedule of BPS.	We will quote tools as per BPS. We have not considered tools as per specification.	Confirmed. However, Contractor is also to refer to Clause 14.2 of GTR, reproduced below: <i>The contractor shall supply all special tools and tackles required for Operation and maintenance of equipment. The special tools and tackles shall only cover items which are specifically required for the equipment offered and are proprietary in nature. The list of special tools and tackles, if any, shall be finalized during detail engineering and the same shall be supplied without any additional cost implication to the Employer</i>
12.	General	-	As there is no item description in customer BPS for on-line PD monitoring system, we presume the same is not required for the present scope. Please confirm.	Confirmed.
13.	Sr. no. 11 of Sch I BPS (Jhangi ss)	420kV, 4000A, 63kA SF6 to Air Bushing	We have considered no. of bays as per BPS. We understand from bushing quantity, 1 No line bay is without SF6 to Air bushing which is not clearly indicated in scope- project. Please clarify.	Bidder to quote as per BPS.
14.	Sr. no. 12 of Sch I BPS (Jhangi ss)	420kV, 4000A,63kA, Single phase SF6 Gas Insulated Bus Duct (GIB) outside GISHall alongwith associated support structure	We quote GIB as per quantity in this item. If there is any increase in quantity, actuals may please be	Please refer Clause 6 of Section Project "All equipment/items, Structures and civil works for which quantities has been given

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	<p>Sr. no. 22 of Sch I BPS (Jhangi ss)</p> <p>Sr. no. 2 of Sch I BPS (Wangtoo ss)</p>	<p>245kV,1600A, 50kA,3 Single phase/3Phase, SF6 Gas Insulated Bus Duct (GIB)outside GIS Hall along with associated support structure(Quantity mentioned here is for 3 Phase type)</p> <p>420kV, 4000A,63kA, Single phase SF6 Gas Insulated Bus Duct (GIB) outside GIS Hall along with associated support structure</p>	<p>paid. Request to clarify if there is any road crossing or level differences at site. To understand, request for layout drawings please.</p>	<p>in the BPS shall be payable on unit rate basis. During actual execution, any variation in such quantities shall be paid based on the unit rate under each item incorporated in Letter of award".</p> <p>Further, Refer Sr. 1 above.</p> <p>Details of existing Wangtoo substation shall be provided during detailed engineering.</p> <p>Bidders is also advised to visit the substation sites and acquaint themselves with the topography, infrastructure and also the design philosophy.</p>
15.	<p>BPS Jhangi Substation, Sl.No. 13 & 16 Wangtoo SS - Sl. No. 4 & 5</p>	<p>420 kV, 4000 A, 63 kA, SF6 GIS Line feeder bay module (with PIR) as per Section-Project, Technical specification</p> <p>420kV, 4000 A, 63 kA, SF6 GIS Tie bay module (with PIR) as per Section-Project, Technical specification</p>	<p>Request kindly to accept controlled Switching Device (CSD) in place of PIR for 400kV GIS Line feeder bay module (with PIR) and 400kV GIS Tie Bay module (with PIR) as mentioned in BPS for both SS.</p>	<p>Bidder to quote as per provision of Bidding document.</p>
16.	<p>BPS Jhangi Substation, Sl. no. 164 & 217 Wangtoo SS: Sl. No. 58</p>	<p>LOCKING DEVICE TO KEEP THE DISCONNECTORS (ISOLATORS) AND EARTHING/FAST EARTHING SWITCHES IN CLOSE OR OPEN POSITION IN CASE OF REMOVAL OF</p>	<p>When the operating mechanism of the disconnecter or earthing switch is removed, the contacts cannot be disturbed from outside in our design. Hence, we do not</p>	<p>As per clause 9.0 of Section Project, "The component/sub-component of an equipment/item specified in BPS under Mandatory Spare, which is not applicable as per the offered design of respective main</p>

Clarification No-03 to the Bidding Documents for Pre Bid Tie up for 400kV New Substation Package SS20T for (i) Establishment of 2x315 MVA (7x105 MVA 1-ph units including a spare unit) 400/220 kV GIS Pooling Station at Jhangi, (ii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Jhangi PGWangtoo D/c TL, (iii) Extn. of 400kV Wangtoo (GIS) S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL and (iv) Extn. of 400kV Panchkula S/s for termination of 400kV Wangtoo (HPPTCL)-Panchkula (PG) D/c TL associated with Transmission system for evacuation of power from Shongtong Karcham HEP (450MW) and Tidong HEP (150 MW) through tariff based competitive bidding (TBCB) route prior to RfP bid submission by POWERGRID to BPC; Spec. No.: CC/T/W-GIS/DOM/A04/23/04695

		THE DRIVING MECHANISM-400KV GIS	envisage the requirement of locking device.	<i>equipment, shall not be referred to."</i> However, these details shall be finalized during detailed engineering stage based on design of Manufacture. Accordingly, bidder to quote as per BPS.
17.	BPS Jhangi Substation, Sl. No. 177 to 186 and 187 to 190 Sl. No. 231 to 240 and 241 to 244 Wangtoo SS : Sl. No. 71 to 80 & 82 to 84	Mandatory spares 400kV GIS	We exclude Hydraulic mechanism, Hydraulic-spring operated mechanism spares as we offer spring operated mechanism for CB.	Please refer Sr. no. 16 of above.
18.	BPS Jhangi Substation, Sl. No. 194,195 & 196 Sl. no. 250, 251 & 252 Wangtoo SS : Sl. No. 88,89 & 90	Mandatory spares 400kV GIS	Proposed interlocks are all electrical with pad locking arrangement. Key interlock, drive control cards is not applicable. Spares applicable for the offered scope shall be considered.	Please refer Sr. no. 16 of above.