

**Clarification-II dated 12.04.2023 for Transmission Line Tower Package TW01 for (i) 400kV D/c (Triple HTLS Conductor) line from Pot Head Yard of Kiru HE Project Kishtwar Pooling Station, (ii) LILO of one ckt. of 400 kV D/c (Triple HTLS Conductor) Kiru Kishtwar line at Pot Head Yard of Kwar & Pakal Dul HE Projects and (iii) Extension of Kishtwar (GIS) pooling station under Consultancy Works to M/S CVPPPL; Spec. No. CC/NT/W-TW/DOM/A06/23/00495**

Sr. No.	Clause Ref/Description	Queries asked by the Bidder	POWERGRID's Clarification
1.	Vol-II_TS TL_ Section IVE Foundation (Employer design)-	The transmission line route is passing through the difficult terrain / hills / mountains. Considering the line construction in such terrain within the given time frame, we understand that blasting will be allowed depending upon Hard rock as well as DFR soil encountered during complete Transmission Line construction.	Bidder may refer Clause 1.7.1, Section-IVE, Volume-II (Technical specifications) for excavation works for different soil classifications.
2.	Vol-II_TS-TL_ SECTION-I B GENERAL INFORMATION	We understand that as per the clause, the Manufacture's / Contractor has to furnish a performance guarantee of 2% of the cost of such tower parts from each of the manufacturer(s) at the time of finalizing the manufacturer(s). But in the bid document, the FORM OF BANK GUARANTEE TO BE SUBMITTED BY TOWER MANUFACTURER is not provided / available. We request you to provide the BG format (submit by Tower, HTLS conductor & HW Manufactures) and amend the same.	Bidder may refer Annexure-C (OPGW FORMS of BANK GUARANTEE FOR CONTRACT PERFORMANCE) Section-IB of TS as reference format for bank guarantee for Tower, HTLS conductor etc. also. However, bidder to replace OPGW with the respective items for which the bank guarantee has to be submitted. The value of bank guarantee shall be as mentioned in Section-IB for respective items. For bank guarantee for tower manufacturer, <i>"Successful performance of the said equipment in accordance with the contract specifications"</i> mentioned under ANNEXURE-C is to be replaced with <i>"Quality and timely supply of tower/tower parts"</i>
3.	Vol-II_TS-TL 2.26.1 (b), Section- IB General Information	We understand that if the line is charged as on the date of issue of NOA from PGCIL to Bidder than the manufacturer shall be deemed to be qualified for supply of HTLS conductor. Please confirm	Bidder may refer clause 2.26.1 (b), Section-IB, which inter-alia stipulates that the conductor should have been in satisfactory operation\$ as on date of NOA. Further, Bidder may refer clause 2.0, Section-IB, which inter-alia stipulates that Satisfactory operation means certificate issued by the

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			Employer certifying the operation without adverse remark.
4.	Vol-II_TS-TL 2.26.1 (b), Section- IB General Information	We understand that in case conductor is supplied through a EPC contractor to end customer then certificate issued by the EPC contractor shall also be acceptable Please confirm	Bidder may refer clause 2.26.1 (b), Section-IB, which inter-alia stipulates that the conductor should have been in satisfactory operation\$ as on date of NOA. Further, Bidder may refer clause 2.0, Section-IB, which inter-alia stipulates that Satisfactory operation means certificate issued by the Employer certifying the operation without adverse remark.
5.	Vol-II_TS-TL 2.26.1 (b), Section- IB General Information	We understand that the additional guarantee needs to be submitted by the bidder and not the manufacturer. Please conform	Bidder understanding is correct.
6.	Vol-II_TS-TL 2.26.1 (c), Section- IB General Information	We understand that tests conducted on a higher cross-sectional area conductor than being offered in current project shall also be acceptable. Please conform	Bidder may refer clause 2.26, Section-IB of technical specification for qualification requirement of HTLS conductor for 400kV transmission line. Further, type tests on HTLS conductor being offered in the subject package shall be required to be carried out as per clause 2.1.1, Section-VIIB of technical specification.
7.	Vol-II_TS-TL 1.3, C-4, Section- IA Scope	"Tension at -5°C and 28% of full wind and 15mm ice condition" Please confirm that HTLS conductor needs to be designed with ice loading	The offered HTLS conductor shall meet the requirement stipulated in the Technical specification.

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8.	Vol-II_TS-TL 1.3, C-4, Section- IA Scope	"Tension at -5°C and 28% of full wind and 15mm ice condition" We understand that OPGW should also be designed for ice loading of 15 mm. Please confirm	Mentioned clause (Vol-II_TS-TL 1.3, C-4, Section- IA Scope) pertains to "Technical Requirements of High Temperature Low Sag (HTLS) Conductor".  However, Bidder may consider 15mm ice condition for OPGW.  Bidder to comply the bidding documents.
9.	General	Terrain is hilly and altitude reaching up to 2000m max, therefore we request you to provide the Tower spotting data.	As per clause 3.5.2, Section-III of technical specification, Tower spotting data shall be furnished by the Employer to the contractor during execution stage.
10.	Vol-II_TS-TL 2.26.1 (a), Section- IB General Information	We understand that, in contracts where a Supplier had supplied materials / products to the EPC Contractor who was awarded contract from end user/principle employer, can obtained a satisfactory operation certificate issued from EPC Contractor. Same certificate will be considered by PGCIL for evaluating the satisfactory operation to meet technical qualification. Kindly confirm our understanding is correct.	Bidder may refer clause 2.26.1 (a), Section-IB, which inter-alia stipulates that the conductor should have been in satisfactory operation\$ for a period of at least one (1) year as on date of NOA. Further, Bidder may refer clause 2.0, Section-IB, which inter-alia stipulates that Satisfactory operation means certificate issued by the Employer certifying the operation without adverse remark.
11.	Vol-II_TS-TL, Section-IB General Information	As per the clause, we understand that EPC contractor/ trader who has brought the conductor from the supplier can be called Employer also since same is not defined in said paragraph. Kindly confirm our understanding is correct	Bidder may refer clause 2.0, Section-IB, which inter-alia stipulates that Satisfactory operation means certificate issued by the Employer

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			certifying the operation without adverse remark.
12.	Vol-II_TS-TL, Section-IA Scope	Tower design is in the PGCIL scope, the bidder has to propose the HTLS conductor as per the technical parameters specified in Vol-II/Section IA. There are various type of HTLS conductors such as GAP, INVAR, ACCC & ACSS. Stringing procedure and methodology is different for all these HTLS conductors. It requires specialised installation techniques which is costlier than conventional methods. Also, there is significant difference in erection cost as well. T&P is also different for each category of HTLS conductors. It is very difficult to derive the exact erection cost, in absence of exact HTLS conductor type. We request you to confirm the HTLS conductor type considered for design purpose and to ascertain the erection cost. We once again request you to confirm the conductor type considered – GAP or INVAR or ACCC or ACSS.	The offered HTLS conductor shall meet the requirement stipulated in the Technical specifications.
13.	Vol-II_TS-TL Section- VIIB HTLS Conductor  Annexure-A (Procedure for Testing), Sr. No. 27 for minimum conductivity test	Request for Amendment: <ul style="list-style-type: none"> <li>• <del>Minimum</del> <b>Average</b> conductivity test on thermal resistant Aluminium Alloy/ Aluminium strands</li> </ul> Annexure-A for Resistivity test as per IEC 60468/ <del>IEC 60889</del> <b>IEC 62641</b> shall be conducted to confirm <del>minimum</del> conductivity as per specification requirement	The Provision of technical specification remain unchanged.
14.	General	We understand Project site is non-costal area. Please confirm creepage distance for long rod is 31 mm /kV and for other switchyard items 25mm/kV is required under present package.	Bidder's understanding is correct

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15.	400 KV GIS	We understand GIS extension module must be available for present scope of work	GIS extension module for extension of GIS will be available for present scope of work.
16.	400 KV GIS	We understand present bidder scope is limited to 4 number 400 KV GIS breaker at Kishtwar substation.	4 Nos. of GIS bays are under present scope, for detailed scope please refer Section Project of TS
17.	400 KV GIS- Future Bay Requirement	We understand that no future bay of 400 KV GIS is to be considered in present scope of work. Please confirm.	4 Nos. of GIS bays are under present scope, for detailed scope please refer Section Project of TS
18.	400 KV GIS- Space provision for future bay	We understand that no future bay space provision to be considered in the proposed GIS building. Please confirm.	Bidder shall quote for GIS building area as per BPS.
19.	Relay setting calculation	We understand relay setting shall be provided by PGCIL during detail engineering. Please confirm.	For relay setting, refer clause no 41 of Section CRP
20.	Integration BBRP	We understand present bays integration with existing bus bar protection system shall be done by owner only, whereas necessary integration support shall be extended by bidder upto present supplied equipment. No modification work is envisaged in existing system. Please confirm.	Please refer clause no 2-A-III of Section-Project for scope of Bus Bar Protection Augmentation.
21.	Integration SAS	We understand present bays integration with existing SAS system shall be done by owner only, whereas necessary integration support shall be extended by bidder upto present supplied equipment . No modification work is envisaged in existing system. Please confirm.	Please refer clause no 2-A-IV of Section-Project for scope of Augmentation of SAS.
22.	System study	Any type of system study is excluded from bidders scope. Please confirm.	Please refer clause no 5.21 and 19.7 of Section GIS for scope of study requirement of GIS.

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23.	Indoor equipment arrangement	Please share indoor GIS hall/CRB layout with panel arrangement.	This shall be shared during Detailed Engineering with the successful bidder.
24.	GIS Hall	With reference to tender documents and Price schedule, extension of GIS hall is in bidder scope . We understand existing GIS hall must be having Maintenance bay space which shall be utilised for present scope GIS also for maintenance purpose. Kindly Confirm.	Bidder shall quote for GIS building area as per BPS.
25.	LT Switchgear	We understand that LT switchgear ,battery and charger are already existing and adequate to cater the load for present scope. Please confirm.	Bidder's understanding is correct
26.	CRP	Please share the make & model of Existing CRP and SAS.	This shall be shared during Detailed Engineering with the successful bidder.
27.	CRP	Section project clause number 2.A.III control and protection system refers for Testing commissioning support and patch cords, FO cable supply at remote end in present scope of bidder as per BPS. Whereas we understand loose differential relay shall only be in present scope. No other supply / services at remote end envisaged under present scope of bidder. Please confirm.	Please refer clause no 2-A-III of Section-Project: <i>Fitting/Installation of Line Differential relay at remote end is also included under present scope of work as per relevant service item of BPS.</i>
28.	Bus Bar Relay Panel	Please share make and model of existing Bus bar protection panel.	This shall be shared during Detailed Engineering with the successful bidder.
29.	SAS	Please share make and model of existing Substation Automation System.	This shall be shared during Detailed Engineering with the successful bidder.

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30.	400 KV GIS	Please share make and model of existing 400 KV Gas Insulated Substation.	This shall be shared during Detailed Engineering with the successful bidder.
31.	GIS	Please share the drawings and GTP of existing 400 KV GIS.	This shall be shared during Detailed Engineering with the successful bidder.
32.	Earthing	Please share existing Earthmat layout or please share the earthing grid spacing.	This shall be shared during Detailed Engineering with the successful bidder.
33.	Fencing	We understand there is no fencing work involved under present scope of bidder.	Bidder's Understanding is correct
34.	Fire Fighting System	Section project clause number 2.A.V. FIRE PROTECTION SYSTEM refers for hydrant system for GIS hall which involves extension of existing piping for GIS hall. Referred item is not appearing in BOQ, kindly clarify the exact requirement and include the same in BOQ, If applicable. Kindly share the nearest piping header distance for hydrant system extension , if applicable.	Hydrant system for GIS hall is in present scope and shall be quoted under BPS Item: <i>Fire detection and Alarm System for 400kV GIS Hall</i>  Nearest piping header location shall be shared during Detailed Engineering with the successful bidder.
35.	Integration	We do not envisage any type of integration work out of present scope substation location. We understand No modification/supply/services/integration envisaged at any remote end/dispatch center/PDC/NTAMC/at third party equipment.	Please refer clause no 2-A-IV of section project for scope of Augmentation of SAS.
36.	Integration	We understand No modification/supply/services/integration envisaged at PDC. Please confirm.	Bidder's Understanding is correct

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37.	Power & control cable	Power & Control cables in switchyard shall be laid on cable support angles. Kindly confirm our understanding.	Power & Control cables in switchyard shall be laid in cable trench.
38.	Existing drawings	Kindly provide existing cable trench , illumination layout and DSLP layout.	This shall be shared during Detailed Engineering with the successful bidder.
39.	APPROVAL PROCESS	We understand drawing document approval shall be done by PGCIL during detail engineering.	Bidder's Understanding is correct
40.	LT Switchgear	Please share the distance from existing LT switchgear to present scope GIS hall.	This shall be shared during Detailed Engineering with the successful bidder.
41.	DC Supply	Please confirm 220 V existing DC Supply is available.	DC Control supply shall be available in existing DCDB.
42.	Plot Area	Please share the plot area of present scope including GIS hall.	This shall be shared during Detailed Engineering with the successful bidder
43.	CIVIL	Please clarify whether land for the existing substation is acquired & boundary wall is constructed.	This shall be shared during Detailed Engineering with the successful bidder.
44.	CIVIL	Please share soil report of existing substation.	This shall be shared during Detailed Engineering with the successful bidder.



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45.	CIVIL	Please share existing building width, height & crane height to match in present scope.	This shall be shared during Detailed Engineering with the successful bidder.
46.	CIVIL	Please share plan and section layout of existing substation	This shall be shared during Detailed Engineering with the successful bidder.
47.	CIVIL	Dismantling (except in existing GIS Building) is not mentioned in Section project or price schedule, please confirm that same if required shall be paid at actual. If required please add the same in price schedule.	Bidder to quote as per BPS
48.	CIVIL	We understand enough space is available and hassle free space shall be provided by client.	Substation site shall be provided without any major hindrance by Employer.
49.	General	Following drawings of existing 400kV GIS Substation are required: (a) Electrical Layout and Section Drawing (b) GIS Hall Layout - Plan & Section (c) Indoor & Outdoor Earthing Layout (d) Existing Indoor & Outdoor Cable Trench Layout (e) Fire Fighting Layout (f) Existing GIS Vendor drawing with end piece module details	This shall be shared during Detailed Engineering with the successful bidder.
50.	BPS Sl. No-14; 400kV Tension Insulator	400kV Tension Insulator String Hardware is mentioned with Twin Conductor but for 4000 Amps line feeder, Quad conductor will be required. Please confirm.	Bidder to quote as per BPS.
51.	BPS Sl. No-20; Line Current Differential Relay	Line Current Differential relay are Remote end use, Please clarify	Please refer clause no 2-A-III of Section-Project:

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			<i>Fitting/Installation of Line Differential relay at remote end is also included under present scope of work as per relevant service item of BPS.</i>
52.	BPS Sl. No-43; Air Condition & Ventilation System	Only Ventilation System for GIS Hall is mentioned as "1 set", however air condition system for relay room is not mentioned. Please clarify.	AC units are not envisaged under present scope.
53.	BPS Sl. No-51; Illumination System	(a) ACP-3, 1 no. is mentioned in BPS, however as per technical specifications normal and emergency lighting is to be provided for both indoor and outdoor area. Please clarify. Also, as per technical specifications of lighting system, ACP-3 is applicable for street lighting. Please clarify.	Bidder to quote as per BPS
54.	BPS Sl. No-51; Illumination System	(b) Kindly confirm, if Emergency Lighting for Switchyard will be done or not because ACP-2 is not mentioned in the BPS.	Bidder to quote as per BPS
55.	Section project Cl. no. 2.A.XII; Lightning Masts for DSLP	For Lightning Protection, Lightning Masts will be required for 400kV bays but same is not mentioned in BPS. Please clarify.	Bidder to quote as per BPS
56.	General	Kindly confirm no augmentation is required in LT Switchgear (ACDB, DCDB (220V & 48V), MLDB & ELDB) etc.	Bidder's understanding is correct
57.	Civil	Land Area with coordinates - not defined kindly provide us the same	This shall be shared during Detailed Engineering with the successful bidder
58.	Civil	Contour data not available kindly provide us the same	This shall be shared during Detailed Engineering with the successful bidder.

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59.	Civil	Soil Investigation report not available kindly provide us the same	This shall be shared during Detailed Engineering with the successful bidder.
60.	Civil	Existing building drawing & design are not available kindly provide us the same (a) Plan & Elevation of GIS Building to know the width & height. (b) Architectural drawing (c) EOT capacity & hook height (d) The existing end portal frame designed for both side loading. (e) Fire door	This shall be shared during Detailed Engineering with the successful bidder.
61.	Civil	LM qty is not given in the tender documents. Kindly Clarify whether LM is required or existing LM can cater the requirement.	Bidder to quote as per BPS
62.	Vol-II/TSSS/ GIS Rev 05A / Clause no. 6.4 (6), Page No. 27	Please clarify, the clause requirement test is not in line with IEC 62271-203 standards requirement. Hence, we request you to accept the Power frequency withstand test as per the IEC 62271-203.	Bidder to quote as per relevant Clause of TS
63.	Vol-II/TSSS/ GIS Rev 05A / Clause no. 20, Page No. 54	We understand this clause is not applicable as Reactor is not envisaged in present scope. Please confirm.	Bidder to quote as per relevant Clause of TS
64.	Vol-II/TSSS/ GIS Rev 05A / Clause no. 6.4 (7), Page No. 27	we understand this clause is not applicable as Reactor is not envisaged in present scope. Please confirm.	Bidder to quote as per relevant Clause of TS
65.	Vol-II/TSSS/ GIS Rev 05A / Annexure-1	One of our GIS vendors design is tested for 500Amps requirement, which is more severe than 600Amps in capacitive current switching duty. Hence we request you to accept test reports of 500Amps tested.	Bidder to quote as per relevant Clause of TS. Applicability of Technical Requirement shall be reviewed during detailed

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	(11) / , Page No. 69		engineering.
66.	General	As per amendment issued by GOI, Ministry of Finance dated 2nd Feb 2022. Regarding performance security clause is amended / revised in General Financial Rules (GFR), 2017 by including the Insurance Surety Bonds as a security Instrument. Hence, we request you to amend the same in tender document	The provisions of the bidding document shall remain unchanged.
67.	Existing Drawing	Request to share existing drawings for estimation of present scope of work, 1) Overall Layout 2) Existing 400kV GIS Building architecture drawing Layout & Sections 3) Panel arrangement layout of GIS Building 4) Existing EOT Crane capacity & Layout Drawing 5) Existing 400kV GIS Extension module drawing & GIS Make 6) Existing Indoor & Outdoor Earth Mat layout drawing 7) Existing AHU Capacity 8) Existing AC SLD, DC SLD, MLDB SLD, ELDB SLD 9) Existing SCADA architecture drawing & utilized & spare IO points in SCADA system.	This shall be shared during Detailed Engineering with the successful bidder.
68.	General; Remote End	We understand that there were no works to be carried out at remote end of the substations except PLCC and Remote end diff relays to be installed and integrated along with integration with SAS, kindly confirm	Bidder's understanding is correct

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69.	General; Remote End	Kindly confirm the space availability for mounting of PLCC equipment at remote end.	Space shall be available for mounting of PLCC equipment at remote end.
70.	General;	We understand that existing AC DC spare feeders are available of suitable rating for present scope of work, kindly confirm	Bidder's understanding is correct
71.	Price Schedule, Sch-1, Sl.No. 103 & 104	400kV tension fitting has been mentioned for Twin conductor & Suspension fitting has been mentioned for Quad conductor, kindly confirm the Conductor inside the switchyard for line bay	Bidder to quote as per BPS
72.	Vol-II_TSSS_ Section Part-IV Substation automation system	Kindly Share existing hardware & software details along with available license configuration. Kindly confirm the utilized & spare IO points	This shall be shared during Detailed Engineering with the successful bidder.
73.	General	Existing GIS building dimensions (LxWxH) are required to estimate the following under present scope, 1. To determine the dimensions of present scope GIS bay modules 2. To estimate the extension GIS hall, AHU room, CRP room width 3. To estimate the AHU for Extended GIS hall 4. To estimate the FDA for Extended GIS hall 5. To estimate illumination system for Extended GIS hall, AHU & CRP rooms	GIS building, LCC Room and AHU room shall be quoted as per quantities mentioned in BPS.
74.	General	Please provide the existing GIS future extension module/adapter module details, to estimate the length of extension module/adapter module to be considered for the present scope of GIS extension.	This shall be shared during Detailed Engineering with the successful bidder.

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75.	General	Please provide EOT crane capacity, type (single or double) girder , hook height of the existing 400kV GIS hall to estimate extension of EOT crane for present scope.	This shall be shared during Detailed Engineering with the successful bidder.
76.	General; CRP - Busbar protection augmentation	We presume that where ever the busbar augmentation is to be considered for the present scope of work and to integrate with the existing system, in such cases the offered relays /BCUs for the present scope shall be suitable with respect to the existing Relays/BCUs interms of version/edition/hardware requirements. If any contradiction between the individual section (CRP-SAS) specification and the existing system of relays then we follow the existing system of relays for augmentation / integration. Please confirm.	Relays /BCUs under present scope shall be as per Section: CRP and Section: SAS. Any compatibility issues with existing system shall be discussed during detailed engineering.
77.	General; Integration	SAS We presume that where ever the SAS integration is to be considered for the present scope of work with the existing system, in such cases the offered BCUs/SAS software for the present scope shall be considered suitable with respect to the existing system interms of version/edition/hardware requirements. If any contradiction between the individual section (CRPSAS) specification and the existing system then we follow the existing system for offering the present scope. Please confirm.	BCUs/SAS Software under present scope shall be as per Section: SAS. Any compatibility issues with existing system shall be discussed during detailed engineering.
78.	Vol-II_I_TSSS_ Section Part-II, Section Project, Cl-E.1, Stone spreading, Page No.10 of 18 & Price Schedule,	Scope of work regarding stone spreading is mentioned in section project, whereas there is no separate line item in price schedule for same, please clarify.	Refer Amendment-II

**Clarification-II dated 12.04.2023 for Transmission Line Tower Package TW01 for (i) 400kV D/c (Triple HTLS Conductor) line from Pot Head Yard of Kiru HE Project Kishtwar Pooling Station, (ii) LILO of one ckt. of 400 kV D/c (Triple HTLS Conductor) Kiru Kishtwar line at Pot Head Yard of Kwar & Pakal Dul HE Projects and (iii) Extension of Kishtwar (GIS) pooling station under Consultancy Works to M/S CVPPPL; Spec. No. CC/NT/W-TW/DOM/A06/23/00495**

Sr. No.	Clause Ref/Description	Queries asked by the Bidder	POWERGRID's Clarification
	Schedule - 3		
79.	Vol-II_I_TSSS_ Section Part-II, Section Project, Cl-B.2 (ii), Page No. 8 of 18	Kindly provide the standard drawing for 400kV wave trap support structure foundation.	This shall be shared during Detailed Engineering with the successful bidder.
80.	General	We request to provide the following drawings to design our proposed GIS building a. Architechural drawing - Plan & section of 400kV GIS building b. Indoor cable trench drawing c. Crane capacity d. PEB structure drawing - 400kV GIS building e. Foundation drawing of 400kV GIS building. f. Site grading drawing with FGL	This shall be shared during Detailed Engineering with the successful bidder.
81.	GIS Specification 5.36	Indicators shall be provided on Drive Box/Equipment. Request for your acceptance	Bidder to quote as per TS
82.	GIS Specification 6.4 (6)	We wish to clarify that subject clause requirement is not in line to IEC 62271-203 standards requirement. We confirm to conduct Power frequency withstand test shall as per IEC 62271-203 and submission of Type test reports shall be submitted during detail Engineering. Request to please accept the same.	Bidder to quote as per TS
83.	GIS Specification 6.7.1 e	The operation counter shall be in LCC where it is easier to monitor / note along with other indications.	Technical suitability of operation counter in LCC as per OEM recommendation shall be reviewed during detailed engineering.

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Sr. No.	Clause Ref/Description	Queries asked by the Bidder	POWERGRID's Clarification
			Bidder to quote as per TS.
84.	GIS Specification 7.2.20	We shall provide the same on drives. Kindly accept.	Bidder to quote as per TS.
85.	GIS Specification 8.8	In our offered GIS design, Earthing switches and its mechanism are connected via the enclosure i.e. they make a continuous earthing path via enclosure itself and so is the case for all the components. Further, the complete GIS is earthed / grounded at multiple points utilizing flat CU / GI bars. Hope the same is acceptable	Bidder to quote as per TS.
86.	GIS Specification 9.1	In our offered GIS design, Earthing switches and its mechanism are connected via the enclosure i.e. they make a continuous earthing path via enclosure itself and so is the case for all the components. Further, the complete GIS is earthed / grounded at multiple points utilizing flat CU / GI bars. Hope the same is acceptable.	Bidder to quote as per TS.
87.	GIS Specification 20	Understand this clause is not applicable as Reactor is not envisaged in present scope. Pls confirm.	Bidder to quote as per relevant Clause of TS
88.	GIS Specification 6.4 (7)	Understand this clause is not applicable as Reactor is not envisaged in present scope. Pls confirm.	Bidder to quote as per TS.
89.	Annexure 1 .11	Our offered design is tested for 500 Amps requirement, which is more severe than 600A in capacitive current switching duty. Hence we request to please accept our submitted test reports	Bidder to quote as per relevant Clause of TS



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Sr. No.	Clause Ref/Description	Queries asked by the Bidder	POWERGRID's Clarification
90.	Section Project	We understand that the design ambient temperature shall be 40 Deg C for 400 kV GIS. Pls confirm.	Refer clause 2-e-E2 of Section Project of TS.
91.	Section Project	Since GIS OEM need to design the adaptor panel as applicable for extending the Busbar of existing GIS, we need the name of manufacturer supplying GIS in New Kishtwar package. Request to provide the make & model of exiting GIS	This shall be shared during Detailed Engineering with the successful bidder.
92.	Section Project	Kindly provide the make & model of exiting CRP & SAS	This shall be shared during Detailed Engineering with the successful bidder.
93.	Cl.no : 2. B Civil Works; Tender Specification : Volume II, (Section project - Scope of work),	Please provide the following details for the proposed substation. 1. Overall Plot plan indicating FGL for the proposed Extn area 2. Global co-ordinates for the proposed SS 3. Contour survey (if available)  In order to estimate the quantum of Civil works.	Refer our reply above for the similar query.
94.	Cl.no: E2; Tender Specification : Volume II, (Section project - Scope of work), e) PHYSICAL AND OTHER PARAMETERS OF THE SUBSTATION	As per referred clause, It is indicated that the Minimum ambient air temperature (°C) is -10 for proposed substation site & snow fall expected. 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.	Confirmed
95.	11.3.1 & E2; Tender Specification : Volume II,(Standard	As per referred clause, It is indicated that the Minimum ambient air temperature (°C) is -10 for proposed substation site & snow fall expected. As per referred clause of Civil specification, 50mm thk. Puff sandwiched panel to be provided for roof & wall sheeting.	Confirmed

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Sr. No.	Clause Ref/Description	Queries asked by the Bidder	POWERGRID's Clarification
	Technical specification for substation -civil work), page 49 of 80 & Tender Specification: Volume II, (Section project - Scope of work), e)PHYSICAL AND OTHER PARAMETERS OF THE SUBSTATION	It is considered that this Roof & wall sheeting is suitable for use in the above environment. please confirm. if not kindly provide the specification for the mentioned environment condition.	
96.	Price schedule-Schedule-3; Sl. no: 94 & 95	In price schedule, for Excavation in all kind of soil the surplus earth lead distance is indicated upto 2km. However for excavation in hard rock the surplus earth lead distance is not indicated. Please specify the lead distance.	Please refer Clause No. 5.5 of TS- CIVIL WORKS REV 11A
97.	Cl.no: E2; Tender Specification : Volume II, (Section project - Scope of work), e) PHYSICAL AND OTHER PARAMETERS OF THE SUBSTATION	As per referred clause, It is indicated that the Minimum ambient air temperature (°C) is -10 for proposed substation site & snow fall is expected. Please specify the snow thickness.	Please Contact Local Meteorological Department for this Data
98.	Cl.no : 2. B Civil Works; Tender Specification : Volume II, (Section project - Scope of work)	We trust that, no building extension and any modification works are envisaged in the existing control room building . Kindly confirm.	Bidder's understanding is correct

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