

Clarification No-VII dated 10/04/2026 to the bidding documents for 400kV GIS Substation Package SS-147 for (a) Extension of 400/220kV Magarwada (POWERGRID) GIS S/s under “Augmentation of transformation capacity at Magarwada GIS Substation in DD & DNH by 400/220kV, 1x500MVA ICT (3rd)”, (b) Extension of 400/220kV Vadodara (POWERGRID) GIS S/s under “Augmentation of Transformation Capacity at 765/400/220kV Vadodara (GIS) S/s in Gujarat by 400/220kV, 1X500MVA ICT(3rd)” and (c) Extension of 400/220kV Rajgarh (POWERGRID) S/s under “Augmentation of transformation capacity at 400/220kV Rajgarh (PG) in MP by 1x500MVA, 400/220kV ICT(4th)”. Spec. No. CC/NT/W-GIS/DOM/A06/25/02628).

S. No.	Volume/Section/ Clause No./Page	Description	Bidder's Query	POWERGRID Reply
1.	Clause No. 6.10.1 of Section- GIS Rev 05A of Technical Specification	Type tests	<p>With reference to the Minutes of Meeting (MoM) (attached) issued for the meeting held under the chairmanship of Member (PS), CEA on 09.11.2023, we understand that field performance of GIS equipment is acceptable in lieu of submission of Low Temperature and High Temperature type test reports.</p> <p>In this regard, we wish to inform that the offered GIS equipment has been operating satisfactorily within an ambient temperature range of -5 °C to +50 °C, which fully covers the ambient temperature requirement specified for this tender (0 °C to +50 °C). The relevant performance certificate is enclosed for ready reference.</p> <p>Further, as the GIS bays for this project are proposed to be installed indoors, the ambient temperature is not expected to exceed 40 °C.</p> <p>In view of the above, the Low Temperature and High Temperature type test reports for the offered GIS equipment have not been submitted. We request your kind acceptance of the same.</p>	Low and High temperature type test for Indoor GIS Switchgear is not required under this package.
2.	Clause No. 5.8 of Section- GIS Rev 05A of Technical Specification	The material and thickness of the enclosures shall be such as to withstand an internal flash over without burn through for a period of 300 ms at rated short time withstand current.	Internal Arc fault test shall be as per IEC 62271-203. Hope the same is acceptable.	Provisions of bidding documents shall prevail. Bidder to quote accordingly.
3.	Clause No. 5.26 of Section- GIS Rev 05A of Technical Specification	For 400 kV and above voltage class GIS, wherever required, stairs, fixed ladder platforms, and walkways for operation and maintenance access to the operating	Fixed platform shall be provided at the most suitable and optimized place however It is practically not possible to provide the platforms at every place. such design would make the	Bidder to comply the requirement as per Technical Specification.

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		mechanism and monitoring devices should be provided to permit access. The structures shall be either aluminum or hot-dipped galvanized steel. All structures, stairs, platforms, and walkways shall conform to the relevant occupational health and safety regulations and designed in accordance with the latest industry standards and guidelines. The platforms and walkways shall have anti-skid surfaces that can be walked on. Handrails shall be provided where necessary. The GIS supplier shall provide 3-D arrangement drawing to show the location of equipment and access to it. In addition to above suitable portable scissor lift shall be provided for access of distant portion of GIS installation.	substation very cumbersome and will create difficulties during any maintaince and repair.	
4.	Clause No. 5.32 (a) of Section- GIS Rev 05A of Technical Specification	The ambient temperature varies between 0 degree-C and 50 degree-C. However, for design purposes, ambient temperature should be considered as 50 degree-C.	For 400kV we understand busbar rated current 4000A for GIS at maximum 50'C ambient temperature & for 220kV we understand the busbar rated current 3000A at 50deg C. Kindly confirm	The requirement of bidding document is ample clear. Bidder to quote as per the provisions of bidding document.
5.	Clause No. 5.34 of Section- GIS Rev 05A of Technical Specification	All cabinet heaters shall be rated for 240V AC (1-phase) supply and shall be complete with thermostat, control switches and fuses, connected as a balanced 3-phase 4-wire load.	We hereby confirm that the thermostat is part of LCC cabinet. However, for other cabinets like circuitbreaker mechanism, disconnecter mechanism and Fast acting earth switch shall not have thermostat provision. Hope the same shall be acceptable.	Acceptable in case other requirements of Technical Specifications are fulfilled for offered design of GIS.
6.	Clause No. 5.36 of Section- GIS Rev 05A of Technical Specification	Indicators shall be provided on all circuit breakers, isolators and earth-switches, which shall clearly show whether the switches are open or closed.	Indicators shall be provided on Drive Box/Equipment as per product type tested design.	Acceptable in case other requirements of Technical Specifications are fulfilled for offered design of GIS.
7.	Clause No. 5.38 of Section- GIS Rev	The bursting strength of Aluminum castings has to be at least 5 times the design	Design of enclosure shall be as per relevant IEC. Type test reports shall be submitted to prove the	Provisions of bidding documents shall prevail. Bidder to quote accordingly.

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	05A of Technical Specification	pressure. A bursting pressure test shall be carried out at 5 times the design pressure as a type test on each type of enclosure. Each enclosure has to be tested as a routine test at 1.5 times the design pressure for one minute.	Strength of Enclosure but repetition of any type test is not foreseen and will not be conducted. Hope the same is acceptable	
8.	Clause No. 5.39.3 of Section- GIS Rev 05A of Technical Specification	The grounding continuity between each enclosure shall be effectively interconnected externally with Copper/Aluminum bonds of suitable size to bridge the flanges. Subassembly to subassembly bonding shall be provided to bridge the gap & safe voltage gradients between all intentionally grounded parts of the GIS assembly & between those parts and the main grounding bus of the GIS.	Design for Ground continuity is through flange connection. i.e metal to metal connection. Which is more reliable since externally bonded connection during the service life time of GIS can develop rusting and could lead to loss of conductivity. The same design is already supplied in all earlier PGCIL Projects. Hope the same is acceptable	Bidder to comply the requirement as per Technical Specification.
9.	Clause No. 5.4 of Section- GIS Rev 05A of Technical Specification	Adequate number of UHF sensors shall be provided in the offered GIS for detection of Partial discharge (of 5 pC and above) as per IEC 60270. The number and location of these sensors shall be based on laboratory test on typical design of GIS as per recommendations of CIGRE Document No. 654 (APPLICATION GUIDE FOR SENSITIVITY VERIFICATION FOR UHF PARTIAL DISCHARGE DETECTION SYSTEM FOR GIS). Offered numbers and location of UHF sensors shall be submitted along with attenuation calculation for approval of the employer. Further UHF sensors shall necessarily be provided in close proximity to VT compartments.	UHF sensors for PD detection: UHF PD sensors shall be provided in the offered GIS for detection of partial discharge. The number and location of these sensors in combination with the employed PD measurement or monitoring system shall be adequate to detect PD signals throughout the GIS equivalent to [at least] ≥ 5 pC apparent charge (as measured according to IEC 60270), thus satisfying the recommendations of CIGRE Technical Brochure TB 654 (APPLICATION GUIDE FOR SENSITIVITY VERIFICATION FOR UHF PARTIAL DISCHARGE DETECTION SYSTEM FOR GIS). In addition, UHF PD sensors shall be placed in close proximity to VT compartments. Following erection and prior to carrying out on-site commissioning testing, the adequacy of the number of UHF PD sensors and their location	Bidder to comply the requirement as per Technical Specification.

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			shall be verified per the Step 2 on-site test described in CIGRE TB 654. In case additional UHF sensors are required during on-site testing, these shall also be supplied & installed to complete the technical requirement based on agreement between PGCIL and the GIS OEM. Hope the same is acceptable	
10.	Layout	Autocad drawings/Documents	We request to please provide autoCAD drawings of - Existing GIS (plan & section view both with all dimensions marked) - Building Plan view and section view (with level marking, FFL and FGL) - Interface module for busbar extension to check feasibility for accomodating new GIS bay along with adaptation	The available PDF drawings has been attached as part of Tender drawings. It is the complete responsibility of contractor to develop the layout drawings as per clause no. 6.0 c) of Section Project, Rev-00 of TS.
11.	Clause No. 5.41(9) of Section- GIS Rev 05A of Technical Specification	GIS manufacturer as per their design shall preferably use maximum three standard straight horizontal outdoor bus duct lengths for entire GIS installation to optimize the spare requirement	Bus duct length dependes on the routing as per the site layout, cut length of duct shall be as per the actual requirement of the site with maintaining clearances. Further the same may also vary as per actual layout of the site even during execution stage, routing can not be done with three standard length of duct. Further for spare qty consideration, three qty of bus duct of maximum length (as applicable for the site layout) shall be offered. Hope the same is acceptable	Bidder to refer sl. No. B.8 of Specific Requirement (Rev-10) attached at Annexure-III of Section Project (Rev-00) of Technical Specification. Bidder to quote accordingly.
12.	Clause No. 5.44, xiv of Section- GIS Rev 05A of Technical Specification	GIS key Diagram enlisting and marking each and every GIS Module clearly and separately identifiable (indoor and outdoor). This separately identified module shall be complete along with its enclosure, gasket and all active parts such as conductor, conductor joints, corona shield etc.	These Documents being Intellectual property of Hitachi Energy under IPR we shall not be able to submit the same during detail Engg.	Provisions of bidding documents shall prevail. Bidder to quote accordingly.

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13.	Clause No. 5.45 of Section- GIS Rev 05A of Technical Specification	xxv. Additional CB data to be furnished during detailed engineering : a) Design data on capabilities of circuit breakers in terms of time and number of operations at duties ranging from 100 fault currents to load currents of the lowest possible value without requiring any maintenance or checks. b) Curves supported by test data indicating the opening time under close open operation with combined variation of trip coil voltage and hydraulic pressure. c) Contact Travel: Operating mechanism operating shaft travel and contact overlap of Circuit Breaker to be provided	These Documents being Intellectual property of Hitachi Energy under IPR we shall not be able to submit the same during detail Engg.	Provisions of bidding documents shall prevail. Bidder to quote accordingly.
14.	Clause No. 5.45 (xiv) of Section- GIS Rev 05A of Technical Specification	GIS key Diagram enlisting and marking each and every GIS Module clearly and separately identifiable (indoor and outdoor). This separately identified module shall be complete along with its enclosure, gasket and all active parts such as conductor, conductor joints, corona shield etc.	Request to please exempt us from submission of documents against this clause as this is related IP information.	Provisions of bidding documents shall prevail. Bidder to quote accordingly.
15.	Clause No. 6.4.6 of Section- GIS Rev 05A of Technical Specification	Withstanding all dielectric stresses imposed on it in open condition at lock out pressure continuously (i.e. shall be designed for 2 p.u. across the breaker continuously, for validation of which a power frequency withstand test conducted for a duration of at least 15 minutes is acceptable).	This is not a requirement of IEC 62271-203. Power frequency withstand test shall be carried out as per IEC 62271-203. Type test reports shall be submitted during detail Engineering.	Provisions of bidding documents shall prevail. Bidder to quote accordingly.
16.	Clause No. 6.6.8 of Section- GIS Rev 05A of Technical Specification	Circuit Breaker shall be supplied with auxiliary switch having additional 8 NO (normally open) and 8 NC (normally closed) contacts for future use over and	Total number of additional NO and NC contacts (by means of contact multiplier relay in LCC) shall be as per LCC schematic design during detail Engineering.	Bidder to comply the requirement as per Technical Specification.

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		above those required for switchgear interlocking and other control and protection function. These spare NO and NC contacts shall be wired upto the local control cubicle.		
17.	Clause No. 6.7.1 e of Section- GIS Rev 05A of Technical Specification	An operation counter shall also be provided	The operation counter shall be in LCC where it is easier to monitor / note along with other indications.	Acceptable in case other requirements of Technical Specifications are fulfilled for offered design of GIS.
18.	Clause No. 6.7.3 k of Section- GIS Rev 05A of Technical Specification	Separate MCBs shall be provided for each spring charging motor and the rating of MCBs shall be suitably selected to match the starting, running and stalling time.	If needed MCB will be provided in LCC, same is not feasible to be provided in Drives due to compactness and design constraints.	Acceptable in case other requirements of Technical Specifications are fulfilled for offered design of GIS.
19.	Clause No. 6.7.3 I of Section- GIS Rev 05A of Technical Specification	An overload relay shall be provided for protection of the spring charging motor	If needed relay will be provided in LCC, same is not feasible to be provided in Drives due to compactness and design constraints.	Acceptable in case other requirements of Technical Specifications are fulfilled for offered design of GIS.
20.	Clause No. 7.2 of Section- GIS Rev 05A of Technical Specification	7.2.13. The disconnectors and safety grounding switches shall have mechanical/electrical inter-locks to prevent closing of the grounding switches when isolator switches are in the losedposition and to prevent closing of the disconnectors when the grounding switch is in the closed position	In our offered designed in 420KV GIS , there is a mechanical interlock between Disconnector & Earthing Switch i.e Single drive for the disconnector and earthing switch.	Bidder to comply the requirement as per Technical Specification.
21.	Clause No. 8.13 of Section- GIS Rev 05A of Technical Specification	Mechanical position indication shall be provided locally at each switch and Electrical indication at each Local Control Cabinet (LCC) / SAS.	Mechanical Position Indication shall be provided at Each Drive/Equipment for Disconnetor and earthing Switch.	Acceptable in case other requirements of Technical Specifications are fulfilled for offered design of GIS.
22.	Clause No. 8.8 of Section- GIS Rev	All portions of the grounding switch and operating mechanism required for grounding shall be connected together	In our GIS design, Earthing switches and its mechanism are connected via the enclosure i.e they make a continuous earthing path via	Acceptable in case other requirements of Technical Specifications are fulfilled for offered design of GIS.

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	05A of Technical Specification	utilizing flexible copper conductors having a minimum cross-sectional area of 100 sq. mm.	enclosure itself and so is the case for all the componets. Further, the complete GIS is earthed / grounded at multiple points utilizing flat CU / GI bars. Hope the same is acceptable	
23.	Clause No. 15.3.6 of Section- GIS Rev 05A of Technical Specification	All instrument transformer connections shall be hard wired to terminal block via ring type connection.	We understand this requirement is at LCC side only considering the reliability of latest design of Pin Type terminals, request to please accept the Pin type terminations as well.	Bidder to comply the requirement as per Technical Specification.
24.	Clause No. 19.7 of Section- GIS Rev 05A of Technical Specification	Further, the manufacturer shall furnish the following information during detailed engineering: a) Study report of VFIO generated for GIS installation for 400 kV and above. b) Calculation for adequacy of UHF sensors to be provided in GIS Installation as per clause no 5.41. c) The calculations and documents in support of the average intensity of electromagnetic field on the surface of the enclosure. d) Calculations to show that there is no Ferro resonance due to capacitance of GIS for the voltage transformers. e) Calculations in support of touch & step voltages in all enclosures and earthing of complete GIS installation. f) Measures to mitigate transient enclosure voltage by high frequency currents. g) The acceptance criteria and limits of impact (of impact recorder) in all three directions which can be withstood by the equipment during transportation and handling.	a. This being a system study requirement, we do not confirm for the same for Gas Insulated Switchgear b. As the design calculations are done via software tool, therefore request to exempt us from submission of design calculation report. c. , d. , e., f., g. We confirm to submit our standard General Technical Information for your review.	Provisions of bidding documents shall prevail. Bidder to quote accordingly.

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25.	Clause No. 20.14 of Section- GIS Rev 05A of Technical Specification	Reactor current switching test For Reactive Current switching capability as per Clause 6.4.1	Reactor Current Switching test shall be as per IEC. Further Clause 6.4.1. indicated the Interrupting the steady and transient magnetizing current for transformer Switching and not reactor switching.	Bidder to refer sl. No. B.19 of Specific Requirement (Rev-10) attached at Annexure-III of Section Project (Rev-00) of Technical Specification. Bidder to quote accordingly.
26.	Clause No. 6.4.7 of Section- GIS Rev 05A of Technical Specification	Circuit breakers shall be able to switch in and out the shunt reactor as detailed below: 400 kV - 50 to 150 MVAR Reactor Ratings	Reactor switching for this enquiry is not applicable. Further, we wish to inform that the standard test values in IEC 62271-110 are given in order to demonstrate the ability of the switching device to interrupt reactor currents and to determine chopping characteristics (suppression peak over voltages) and re-ignition behavior. The lower the reactor current value, the higher are the stress levels during breaker switching. Hence the test reports with breaking current of 116A shall be valid for 125MVAR Reactor rating which is equivalent to 172A Current rating. If any other value of reactor switching current which is lower than IEC requirement, same shall be proven by calculations, if required.	Bidder to refer sl. No. B.19 of Specific Requirement (Rev-10) attached at Annexure-III of Section Project (Rev-00) of Technical Specification. Bidder to quote accordingly.
27.	Annexure-1.11 of Section- GIS Rev 05A of Technical Specification	Rated line charging interrupting current at 90 deg. Leading power factor angle (A rms) (The breaker shall be able to interrupt the rated line charging current with test voltage immediately before opening equal to the product of $U/\sqrt{3}$ and 1.4 as per IEC-62271-100	The test current of 500A is more severe than 600A in capacitive current switching duty. Hence the test reports shall be valid for 600A application.	Bidder to comply the requirement as per Technical Specification.
28.	Clause No. 5.41 (9) of Section- GIS Rev 05A of Technical Specification	GIS manufacturer as per their design shall preferably use maximum three standard straight horizontal outdoor bus duct lengths for entire GIS installation to optimize the spare requirement.	Please note that our offering for 400 kV bus duct is single Phase design and length may vary as per the layout requirement. Hence restricting the bus duct using maximum three straight bus duct lengths will not be feasible. Hope the same is acceptable.	Bidder to refer sl. No. B.8 of Specific Requirement (Rev-10) attached at Annexure-III of Section Project (Rev-00) of Technical Specification. Bidder to quote accordingly.

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29.	Clause No. 20 of Section- GIS Rev 05A of Technical Specification	The test reports of the above type tests for GIS (including type test report on Circuit breaker, Disconnect Switch, Grounding switches, Current and Voltage transformers as per relevant IEC and type tests of SF6/Air & Oil bushing as per IEC 60137 shall be submitted for approval as per Section- GTR, Technical Specification.	We wish to inform that offered GIS bay is of same model/design as of existing GIS on Site and fully type tested in accordance with IEC 62271-203. In view of same and since no design change thereafter, we request to accept the type test reports validity beyond CEA guideline for this project. Request to accept.	Provisions of bidding documents shall prevail. Bidder to quote accordingly.
30.	-	Site corrosion class	Corrosion class for outdoor gas insulated busduct shall be C5 and for Indoor GIS shall be C4. Request to pls confirm	Bidder to quote as per the provisions of bidding document.
31.	Clause No. 5.43.1 of Section- GIS Rev 05A of Technical Specification	SF6 gas monitoring devices and alarm circuits	Temperature compensated type SF6 gas density monitor with alarm & trip signals shall be provided for each gas compartment as per specification. However, any additional output such as analog or digital output from gas density monitor is not envisaged and not provided. Kindly confirm	Bidder to comply the requirement as per Technical Specification.
32.	-	Routine / Factory test inspection	Routine test for the equipment shall be arranged at vendor and sub vendor works (if required). However, lodging/boarding/travle/food/accomodation charges shall not be in scope of HE India.	Bidder to quote as per the provisions of bidding document.
33.	-	Seismic test	Seismic study for thre GIS shall be submitted during execution. Any test/type test for the same is not applicable and not provided.	The requirement of bidding document is ample clear. Bidder to quote as per the provisions of bidding document.
34.	-	Control cable	Control cable for the GIS shall be as per PGCIL TS Rev.5A only.	Bidder to refer Clause no. 15.3 of Section-GIS Rev 05A for cabling between LCC Panel and GIS equipment.
35.	-	-	PIR or CSD is not applicable in GIS and hence the same is not considered in our offer.	Bidder to quote as per BPS & provisions of Technical Specifications.