

**Clarification - I for package Supply, Installation & Commissioning of Spring-Spring Operated 3-Ph, 145kV, Circuit Breakers with SF6 free alternative medium including dismantling of existing 145kV CBs at Imphal S/s.**

**Spec. No.: CC/NT/W-MISC/DOM/A06/24/10523**

Sl. No.	Reference document	Reference Clause	Tender Description/Bidder's Query	Bidder's Query	POWERGRID's Reply
1	General			Request POWERGRID to confirm the availability of Guest House.	Guest house shall be provided on chargeable basis, based on availability.
2	Technical Specifications GTR (Rev. 15)	12.3.4		If the control cabinet of Circuit Breaker is made up of Aluminium, then the painting shall not be mandatory. Kindly confirm.	Bidder to quote as per requirement of Bidding Documents. Please refer clause 12.3.7 of the GTR for further clarification.
3	Technical specifications: Section-Switchgear GCB (for 145kV) Rev.00	1.4		If the control cabinet of Circuit Breaker is made up of Aluminium, then the painting shall not be mandatory. Kindly confirm.	Bidder to quote as per requirement of Bidding Documents. Please refer clause 12.3.7 of the GTR for further clarification.
4		2.3 (v) and 15.2 (x)		Shunt reactor is application specific test and shall be applicable only for the CBs offered for reactor switching application. Kindly confirm.	The requirement of reactor switching duty for the CB & control switching device (CSD) is not envisaged. Please refer clause 2.1 of the section project.
5		4.1.1 and 15.2 (iv)		If the offered CB is of Vacuum type, the contacts are inside vacuum. Then the special tests to validate the contacts gap like 8 hours withstand test at zero gauge pressure as well as 15 minutes withstand test at lock out pressure of SF6 alternative gas shall not be applicable. Kindly confirm.	Bidder to quote as per requirement of Bidding Documents.
6		5. ©		If the offered SF6-free alternative gas is Clean Air (i.e., composition of Nitrogen and Oxygen), then only dew point measurement is acceptable. Kindly confirm.	Please refer clause 5.0(c) of Section Switchgear GCB (for 145kV) Rev. 00.
7		17.1 (d)		If the offered CB is of Vacuum type, then Slow closing and opening operation shall not be applicable. Kindly confirm.	Noted
8	Technical specifications: SF6 free alternative medium Leakage detector	General		If the offered CB is of Vacuum type, and has a clean air as insulation medium (composed of Nitrogen and Oxygen), then leakage sprays shall be accepted as a solution for leakage detection. Kindly confirm.	Bidder to quote as per requirement of Bidding Documents.
9	SECTION-PROJECT- Clause No.25	Supply and laying of control & power cable		We understand that the existing control and power cables will be utilized for the new 145kV circuit breakers. However, if the existing cables are found to be insufficient or require additional lengths, then same shall be supply & laying by Powergrid	Please refer Clause 2.5 of in Section - Project.
10	SECTION-PROJECT- Clause No.2.3	Existing 145kV CB 132kV Imphal- Imphal2 Line - Siemens Make		We understand that 3" IPS tubes are used for 2-phase systems, and Twin ACSR Zebra conductors are used for 1-phase systems. We request that, instead of using the 3" IPS tube, the Twin ACSR Zebra conductor be used & which shall be supplied by Powergrid. However, suitable terminal connectors for the Twin ACSR Zebra conductor and circuit breaker shall be supplied by the bidder	Please refer Clause 2.9 of in Section - Project.
11	SECTION-PROJECT- Clause No.2.3	Testing of 145kV CBs		We understand that all the testing kits shall be providing by Power grid on free of cost.	Bidder to quote as per requirement of Bidding Documents. Please refer clause 2.11 of the Section - Project.
12	General	SF6 Gas handling plant		Powergrid shall be provide the SF6 Gas handling plant for removing of SF6 Gas from existing CBs- please confirm.	Please refer clause 2.3 of Section-Project
13	General	Foundation drawings of CB		We required the foundation drawings of existing 145kV CBs to designed structure for existing foundation.	Drawings of the existing breakers are already provided in Vol 2 Part 1 of the bid documents.
14	General	Photos of existing CBs		Kindly share the Photos of existing CB.	Please refer clause 2.2 of Section-Project
15	General	Existing CB foundation		Existing foundation shall be used for new circuit breaker. However, we will provide the adaptor structure which will be suitable for existing foundation and new circuit breaker.	Please refer clause 2.2 of Section-Project
16	General	Twin ACSR Moose Conductor/I PS tube & earthing		Existing Twin ACSR Moose Conductor/IPS tube & earthing shall be used for new circuit breaker. However, if required additionally same shall be supply of Powergrid	Please refer clause 2.9 of Section-Project
17	General	Modification in CRP if any		We have not considered any modification work in existing CRP. If any same shall be in POWERGRID scope.	Noted.

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18	General	Site Security , Emergency / Crisis Preparedness		Who will be responsible for security on-site i.e. bidder Or Powergrid	As per present scope of work, all the related responsibility shall be in bidders scope.
19	General	Site Security , Emergency / Crisis Preparedness		Powergrid will provide support in case of any local issues, such as preventing theft, vandalism, or sabotage. - Please confirm	As per present scope of work, all the related responsibility shall be in bidders scope.
20	General	Site Security , Emergency / Crisis Preparedness		Powergrid will provide support in case of any medical emergency & other emergency situation	As per present scope of work, all the related responsibility shall be in bidders scope.
21	General	Site Security , Emergency / Crisis Preparedness		Powergrid will provide support in Lodging & boarding and canteen facility from Powergrid- please confirm	As per present scope of work, all the related responsibility shall be in bidders scope.
22	General	Site Security , Emergency / Crisis Preparedness		We require support in storage of (critical) material, components and equipment. Further, What kind of protection measures are planned to avoid theft, vandalism or sabotage?	As per present scope of work, all the related responsibility shall be in bidders scope.
23	General	Site Security , Emergency / Crisis Preparedness		Powergrid will provide support in local travelling if any emergency situation - please confirm	As per present scope of work, all the related responsibility shall be in bidders scope.
24	General	Site Security , Emergency / Crisis Preparedness		We will work in existing switchyard in which all security measures are provided by customer- please confirm	As per present scope of work, all the related responsibility shall be in bidders scope.
25	SECTION-PROJECT	Clause -2.2	Foundation of existing CBs are to be utilized for the new Circuit breakers. Any modification/preparation required in the existing foundation or new foundation (if required) may also be considered with approval of POWERGRID. The rate quoted shall be inclusive of foundation cost also.	we will match the mounting details by providing adapter frame to retain the existing foundation.	Please refer clause 2.2 of Section-Project
26	SECTION-PROJECT	Clause -2.2	Alternatively, if existing foundations are used, the dimensions of the support structures for the new breaker shall be suitable for the existing foundation of the old breakers.	Hitachi Energy will utilized the existing foundation by adapter frame. We understand that there will be no requirement of Seismic withstand test . PGCIL to confirm/ensure healthiness of existing foundation.	Please refer clause 2.2 of Section-Project is ample clear. Please refer clause no: 15.2(v) of Section switchgear-GCB and ANNEXURE-B to GTR15 reagrding requirement of Seismic withstand test. Static calculations for seismic test is also accepted.
27	SECTION-PROJECT	Clause -2.3	Arrangement of crane, Hydra, gas handling plant, gas filling kit, dew point meter, other tools & tackles etc. required for the entire works will be in scope of contractor.	As per the tender clause - 2.11 of section project, PGCIL will free issue testing and commissioning test kits required to perform the mentioned test in tender (on free of cost basis). Therefore it request to provide gas handling plant, Crane,Hydra also. Moreover, for dew point measurement, tender supplied kit will be used. Request you to please accept the same.	Please refer clause 2.3 of Section-Project
28	SECTION-PROJECT	Clause -2.4	The work is to be carried out in live 132KV Switchyard. Hence all safety norms shall be adhered by the contractor during the entire work.	As per the Hitachi Energy Policy the work is not to be carried out under live condition. Proper Isolation must be provided as per IEC/CBIP/ Hitachi energy/PGCIL standard, out of which superior standard will be followed and same will decided before installation activities	Bidder to quote as per requirement of Bidding Documents.

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29	SECTION-PROJECT	Clause -2.5	Control DC Supply shall be 220V DC. Supply and laying of control & power cable from LCC/MB to poles of CBs through PVC pipe, if required. The PVC pipe required for the said work shall be in scope of contractor. Also, the interconnection of detached Auxiliary Power and control cables from control room/Switchyard Panel room to marshalling box of existing circuit breaker, in LCC/MB of New CB is also covered in subject scope. Work is to be carried out as per Standard procedure given in Switchyard Erection Rev.10.	1) As per tender, Hitachi Energy will offer MGO (Mechanically Gang Operated) Circuit breaker with pole beam mounted mechanism. Hence, common marshalling box (MB/LCC) not applicable for this design.  2) Supply of Control and power cable shall not be in bidder scope.	1) Bidder to quote as per requirement of Bidding Documents. 2) Please refer Clause 2.5 of in Section - Project.
30	SECTION-PROJECT	Clause -2.6	Supply of 1 No. of leakage detector/leakage monitoring system, and 1 No. of Quality analyzer for SF6 free alternative medium, for each design/type of 145kV CB supplied at Imphal Substation as per bid price schedule(BPS), shall be in the scope of contractor. The brief technical requirements of leakage detector/leakage monitoring system and quality analyzer is enclosed at Annexure-II with the bidding document.	As a manufacturer of circuit breaker don't foresee the requirement of leak detector of CO2/O2 at site. In addition to that CO2/O2 gas do not have any trace gas, the possibility to use the detector is doubtful.  These products are manufacturer with high degree of accuracy and precision. To Ensure leak proof supply of circuit breaker, we are performing leak test at factory with the help of Helium gas in enclosed testing system. After validation of leak proof system, we are supplying the circuit breakers at site for further installation activity.  <b>During commissioning and lifetime maintenance at site verification via density monitor is done.</b> To locate the location of leakage, we would use of Soap solution or spray solution. <b>We don't foresee the requirement of leak detector for Hitachi Energy make Circuit breaker technology.</b>	Bidder to quote as per requirement of Bidding Documents.
31	SECTION-PROJECT	Clause - 2.7	The OEM recommended quantity (minimum 100% of the quantity required to be filled in the supplied breakers) of spare SF6 alternative medium shall be supplied with the circuit breaker in separate unused non-returnable cylinders, for each design/type of 145kV CB supplied at Imphal Substation. The cylinders supplied should be designed/tested as per relevant national/international standard.	We understand that these requirement of spare cylinder is covered under Mandatory spares as per bid price schedule (BPS) list. Hence, bidder has to be supply total 2 set of Gas cylinder. One is to fill and charge the circuit breaker and second will be for spare.	The details provided in Clause no:2.7 is ample clear, Bidder to quote as per BPS meeting requirement of requirements of TS .
32	SECTION-PROJECT	Clause - 2.8	The contractor shall supply Mandatory spares as per bid price schedule (BPS) for 145kV CB with SF6 alternative medium, as mentioned in Table below, for each design/type of 145kV CB supplied at Imphal Substation:	Spare will be supplied as per Hitachi Energy Recommendation.	Bidder to quote as per requirement of Bidding Documents.
33	SECTION-PROJECT	Clause - 2.9	Supply and fitting of terminal connectors along with hardware and reconnection of existing conductor/aluminum pipe after suitable modification, if required.	Height match with existing Circuit breaker is not possible being retrofitting job in natures. Hence, there may the requirement of changing the IPS/ACSR conductor. IPS/Conductor shall be supplied by PGCIL .	Please refer Clause 3.0 of exclusion and clause 2.14 in Section - Project.
34	SECTION-PROJECT	Clause - 2.10	Earthing of CBs along with structures and LCC/MB with GI strips as per directions of Engineer-In-charge – Existing riser connections can be used. However, if additional risers are required same will be in scope of contractor. If any deficiency is noticed during pre-commissioning checks, the same will be required to be attended by contractor. Earthing work shall be carried out as per the Standard procedure given in Switchyard Erection Rev.10.	Hitachi Energy scope will be limited to connection of existing earthing risers to Circuit breaker and operating mechanism and if required 50X6 GI flat will supplied of 5 meter / Circuit breaker only.	Bidder to quote as per requirement of Bidding Documents.
35	SECTION-PROJECT	Clause - 2.11	Testing and commissioning of the CBs as per POWERGRID pre-commissioning test procedures. POWERGRID will provide the test kits for the said testing. However, travel transducer suitable with the Scope make DCRM kit shall be ensured by Bidder.	Noted, travel transducer will provided on returnable basis for the testing only	Noted.

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36	SECTION-PROJECT	Clause - 2.13	Training of Employer personnel: The contractor shall provide at least 3 days training for upto 10 employees for each design/type of 145kV CB supplied at Imphal Substation, to impart detailed knowledge of system/equipment design, engineering, operation & maintenance aspects of the circuit breaker with SF6 alternative medium including its sub-systems, handling of SF6 alternative medium, application of instrument & capabilities to the POWERGRID personnel through qualified person(s) authorized by OEM. Training shall be arranged by the contractor at Imphal site, on mutually agreed date with POWERGRID. The required training materials shall be arranged by the contractor. POWERGRID reserves the right to retain such materials, but for in-house training and use only.	No separate site visit will be made to provide training, Training will be provided at the time of Installation, testing & Commissioning visit only.  Training will be provided on O&M, and allowable product information will shared as per Hitachi Energy Policy.	Please refer clause 2.13 of the section project.
37	Technical Specification of SF6 free alternative medium Quality Analyzer		The Instrument should be able to measure Dew point of N2 & Dry Air	Hitachi Energy design will required to measure to CO2 and O2. Hence N2 and dry air medium dew point measurement is not applicable.	Bidder to quote as per requirement of Bidding Documents.
38	Technical Specification of SF6 free alternative medium Quality Analyzer		Bidder shall be responsible for providing after sales service in India, as and when required by POWERGRID.	The after sale service can be directly taken from OEM	Bidder to quote as per requirement of Bidding Documents.
39	Technical Specification of SF6 free alternative medium Leakage Detector/Leakage monitoring system		Technical Specification of SF6 free alternative medium Leakage Detector/Leakage monitoring system	Not recommended for Hitachi Energy Design	Bidder to quote as per requirement of Bidding Documents.
40	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause: 1.0; 1.3 & Clause: 8.0; 8.1.5 Clause: 8.0; 8.1.8 Clause: 8.0; 8.1.10 Clause: 8.0; 8.2.3 Clause: 9.0; b) Clause: 12.1	The circuit breaker shall be complete with operating mechanism, common marshalling box, piping, inter-pole cables, cable accessories like glands, terminal blocks, marking ferrules, lugs, pressure gauges, density monitors (with graduated scale), galvanised support structure, platform with ladder for CB, their foundation bolts and all other accessories required for carrying out all the functions of the CB.	- We are manufacturing MGO only hence common marshalling box not applicable. - Our drive position is at sufficient height hence platform is not required.	Bidder to quote as per requirement of Bidding Documents.
41	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause: 2.0; 2.3	Circuit Breaker : Shunt Reactor application	Not applicable.	Refer clause 2.1 of Section project. The requirement of reactor switching duty for the CB & control switching device (CSD) is not envisaged.
42	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause: 2.0; 2.4	Circuit Breakers shall be equipped with controlled switching device	Not applicable	Refer clause 2.1 of Section project. The requirement of reactor switching duty for the CB & control switching device (CSD) is not envisaged.
43	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause: 2.0; 2.4.1 - n)	For Circuit breaker with CSD controlling a Transformer following is applicable. "The limit for inrush current for switching of Transformer by CSD shall be 1.0 p.u. of rated current of transformer after fine tuning of CSD settings during pre- commissioning checks. For site acceptance of CSD, during online CSD test after fine tuning inrush current should be less than 1.0 P. U. of rated current in five consecutive operations".	Not applicable	Refer clause 2.1 of Section project. The requirement of reactor switching duty for the CB & control switching device (CSD) is not envisaged.
44	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause: 4.0; 4.1.1	The gap between the open contacts shall be such that it can withstand at least the rated phase to ground voltage for 8 hours at zero gauge pressure of SF6 free alternative medium due to the leakage. The breaker should be able to withstand all dielectric stresses imposed on it in open condition at lock out pressure continuously (i.e. 2 p.u. across the breaker continuously, for validation of which a power frequency dielectric with stand test conducted for a duration of at least 15 minutes is acceptable).	As per standard we do not perform this test for any customer, Request you to kindly accept the same.	Bidder to quote as per requirement of Bidding Documents.
45	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause: 4.0; 4.3, b)	In case the leakage under the specified conditions is found to be greater than 0.5% per year after commissioning of circuit breaker during the warranty period, the manufacturer will have to supply free of cost, the total gas requirement for subsequent ten (10) years, based on actual leakage observed during the warranty period.	Regarding gas leakage information, please refer our operation manual. we cannot confirm the supply of gas free of cost for 10 years as it's a commercial implication & site's environmental condition & maintenance activities are beyond OEM control.	Bidder to quote as per requirement of Bidding Documents.

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46	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause: 8.0; 8.2.9;d)	It shall be possible to test all gas monitoring relays/devices without de-energizing the primary equipment & without reducing pressure in the main section. Plugs & sockets shall be used for test purposes. It shall also damp the pressure pulsation while filling the gas in service, so that flickering of the pressure switch contacts does not take place.	Requirement of Plug and socket - More information required	Query is not clear. Bidder to quote as per requirement of Bidding Documents.
47	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause: 10.0	The circuit breaker terminal pads shall be made up of high quality electrolytic copper or aluminium and shall be conforming to Australian Standard AS-2935 or equivalent standard for rated current. The terminal pad shall have protective covers which shall be removed before interconnections.	We follow IEC Standards	Bidder to quote as per requirement of Bidding Documents.
48	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause: 12.0; 12.1; xi)	Controlled switching accessories like sensors, timers, relays etc.(as applicable)	Not applicable	Refer clause 2.1 of Section project. The requirement of reactor switching duty for the CB & control switching device (CSD) is not envisaged.
49	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause: 12.0; 12.1; xii)	Transducers/Fixtures required for travel measurement shall be supplied by CB manufacturer. The complete set of Transducers/Fixtures for measurement of complete 3-phase CB shall be supplied for each station. Further, one set of gas filling adopter (Including coupling, regulator, connecting hose pipe up to ground level) shall be supplied as per BPS.	Transducers are not part of our offer.	Bidder to quote as per requirement of Bidding Documents.
50	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause: 13.0	ADDITIONAL DATA TO BE FURNISHED	HE sweden will share the following drawings only as per HE Sweden standard for all our projects 1. Name plate 2.Schematic 3. General Arrangement	Bidder to quote as per requirement of Bidding Documents.
51	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause: 18.0, 5	Replacement or Refurbishment of grading	Not applicable	ok. Noted
52	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause 17.0	PRE-COMMISSIONING TESTS (a) Insulation resistance of each pole. (b) Check adjustments, if any suggested by manufacturer. (c) Breaker closing and opening time. (d) Slow and Power closing operation and opening. (e) Trip free and anti pumping operation. (f) Minimum pick-up voltage of coils. (g) Dynamic Contact resistance measurement. (h) Functional checking of control circuits interlocks, tripping through protective relays and auto reclose operation. (i) Insulation resistance of control circuits, motor etc. (j) Resistance of closing and tripping coils. (k) SF6 free alternative medium leakage check. (l) Dew Point Measurement (m) Operation check of pressure switches and gas density monitor during gas filling. (n) Checking of mechanical 'CLOSE' interlock, wherever applicable. (o) Testing of grading capacitor. (p) Resistance measurement of main circuit. (q) Checking of operating mechanisms (r) Check for annunciations in control room. (s) Point of wave switching test (wherever applicable)	Testing kit for test will provided by PGCIL. (a) Not applicable at site (b) Noted (c) Noted (d) Not being performing (e) Noted (f) Not being performing (g) Not being performing (h) Noted, only of Circuit breaker end (i) Resistance can be measured only. (j) Noted (k) Using Soap solution (l) Can be performed spare kit supplied. (m) Noted (o) Not Applicable (p) Noted (q) Noted (r) In PGCIL scope (s) Not applicable	Bidder to quote as per requirement of Bidding Documents.
53	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause 15.3	Routine Tests	Routine tests as per IEC:62271-100 shall be performed and Hitachi Energy Routine Test reports as attached and same will be followed during FAT.	Bidder to quote as per requirement of Bidding Documents.
54	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause 15.3 3	Routine tests on Circuit breakers with Controlled switching device as per IEC/TR 62271-302	Not applicable	Refer clause 2.1 of Section project. The requirement of reactor switching duty for the CB & control switching device (CSD) is not envisaged.
55	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause 15.3 4	Tan delta and Capacitance measurement for grading capacitors at rated voltage and also at 10kV (for reference)	Not applicable	ok. Noted
56	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause 15 (10)	Switching of Shunt Reactors. Test reports shall be submitted as per IEC.	Not applicable	Refer clause 2.1 of Section project. The requirement of reactor switching duty for the CB & control switching device (CSD) is not envisaged.
57	SECTION: SWITCHGEAR-GCB (GREEN CIRCUIT BREAKER)	Clause 15 (11)	Circuit breakers meant for controlled switching shall conform to requirements of IEC/TR-62271 – 302.	Not applicable	Refer clause 2.1 of Section project. The requirement of reactor switching duty for the CB & control switching device (CSD) is not envisaged.

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58		General	FAT	Overseas Manufacturing Unit shall be carrying out all the routine tests on breakers as per Manufacturer Inspection and test plan. All charges for inspection by Customer or its authorized representative like lodging / boarding, accommodation, air travel, local conveyance shall be borne by Customer only and will not be part of the present supply offer.	Please refer clause: 8.3 & 9.4 of GTR Rev15 Bidder to quote as per requirement of Bidding Documents.
59		General	Lot Size	Overseas Manufacturing Unit shall perform routine testing for 100% of the lot, however for witnessing / FAT, Supplier shall offer 10% from the full lot. Kindly confirm if same is acceptable	Please refer clause: 8.3 & 9.4 of GTR Rev15 Bidder to quote as per requirement of Bidding Documents.
60		General	Pad lock	Supplier provides provision for padlocking arrangement, however supply of lock & keys shall not be in Supplier scope. Please provide your kind acceptance	Bidder to quote as per requirement of Bidding Documents.
61		General	Type test	We request your good office to kindly accept the Type test summary that contains the name of the Lab, test parameters, report number, etc. which provides good overview about the type testing done, hence we request to waive off the requirement of original Type test reports submission.	Bidder to quote as per requirement of Bidding Documents.
62		General	Financial	Kindly confirm that either Overseas Unit or local manufacturing Indian Unit shall submit the financial documents against this requirement. Please confirm our understanding.	The bidder needs to furnish the Annual report and other financial documents as per the provisions of the Bidding Documents.
63		General	Document requirement	Whether any documents related to imported product for taxation, tender purpose is required. Pls elaborate and confirm	Provisions of the Bidding documents are amply clear.
64		General	Drawing and details	All the drawings shall be in soft copy - pdf format only. Request to kindly accept	Please refer clause 5.0 of GTR Rev 15
65		General	Insulator	Since the Insulators are procured from a reputed supplier, we do not foresee to repeat the Test certificates of Hollow Insulators with respect to SF6 Free Breaker. Please accept	Bidder to quote as per requirement of Bidding Documents.
66		GCC 21.2	If the Contractor fails to comply with the Time for Completion in accordance with Clause GCC 21 for the whole of the facilities, (or a part for which a separate time for completion is agreed) then the Contractor shall pay to the Employer a sum equivalent to 0.05% (zero point zero five percent) of the Contract Price for the whole of the facilities, (or a part for which a separate time for completion is agreed) as liquidated damages for such default and not as a penalty, without prejudice to the Employer's other remedies under the Contract, for each day which shall elapse between the relevant Time for Completion and the date stated in Taking Over Certificate of the whole of the Works (or a part for which a separate time for completion is agreed) subject to the limit of five percent (5%) of Contract Price for the whole of the facilities, (or a part for which a separate time for completion is agreed).	On undelivered portion only.	The provisions of the Bidding Documents are amply clear and shall remain unchanged.
67		General	The equipment to be supplied in accordance with the technical part of the Tender shall be warranted for a period of 12 (twelve) months from the date of commissioning, but in no case whatsoever longer than for a period of 18 (eighteen) months from the date of dispatch.	The equipment to be supplied in accordance with the technical part of the Tender shall be warranted for a period of 12 (twelve) months from the date of commissioning, but in no case whatsoever longer than for a period of 18 (eighteen) months from the date of dispatch.	The provisions of the Bidding Documents are amply clear and shall remain unchanged.
68		General	FAT of other item	FAT of Circuit breaker shall be without Terminal connector, Adapter frame and Platform etc. since it is locally being procured. However, if required FAT of this items can be done locally in India.	Bidder to quote as per requirement of Bidding Documents.
69		General	we shall not conduct any separate type test / study for seismic suitability.	we shall not conduct any separate type test / study for seismic suitability.	Please refer clause no: 15.2(v) of Section switchgear-GCB and ANNEXURE-B to GTR15 regarding requirement of Seismic withstand test. Static calculations for seismic test is also accepted.