

Consolidated Response to Bidder's Queries

Referenece:

- 1) Tender Enquiry Document for Pooling Substation 400/33 kV, 1200 MW (PSS-2) of Solar / Wind / Hybrid RE Park of 2375 MW Capacity at Great Rann of Kutch Area, Gujarat. (RfP No: GIPCL/RE Park/PSS-2 dtd: 16th Feb, 2023)
- 2) Pre-bid queries received during Pre-Bid Meeting on 02.03.2023 and also through various email(s).

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries
1	Vol II FCE-1721125-EL-DWG-LAY-2100-035				OVERALL ELECTRICAL LAYOUT 400/33 KV GIS PSS-2 SUBSTATION (FOR TENDER PURPOSE ONLY)	Please provide detail layout of PSS 2	Bidder shall refer " Vol II FCE-1721125-EL-DWG-LAY-2100-035" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
2	Vol II Sec-1-GTS_PSS 2 R1	EXCLUSIONS	3.0.0	9 of 73	.....33 kV Cable including cable termination kit & cable gland from Pooling switchgear to Solar/Wind plant.....	We have understood that up to 33kV incoming cable is on 33kV solar vendor scope. EPC scope will start after 33kV incomer (with termination kit and termination). Please confirm	Bidder shall refer " Vol II Sec-1-GTS_PSS 2 R1" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
3	Vol II Sec-2-12-DTS_HT SWGR_PSS 2	DESIGN REQUIREMENTS	4.8.0 (a)	3 of 26	a) HV Switchgears shall have Vacuum circuit breakers for incomer, station service transformer, SPP/WPP feeders and spare feeders.	We have understood that the 33kV Breaker shall be of VCB type and 33kV Switchgear to 340MVA, 400/33kV Transformer connection is with 33kV AIS Busduct. Please confirm	Bidder shall refer " Vol II Sec-2-12-DTS_HT SWGR_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
4	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.2.1	2 of 28	Indoor GIS shall be 3-phase, 400 kV, 4000 A, 63 kA (3 sec), metal enclosed, phase segregated type having double bus arrangement, Bus Bar Module comprise of;	Please confirm the PIR and CSD requirement for 400kV GIS CB.	Bidder shall refer "Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001" & Clause No 2.2.3 and 2.2.7 of "Vol II Sec-2-3- DTS_400 kV GIS SWGR_PSS2". 400 kV Transmission Line length is approximately 15 km. PIR is Not Required. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
5	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	DESIGN & CONSTRUCTION REQUIREMENTS FOR 400 kV GIS SYSTEM	7.28.0	17 of 28	The GIS shall be designed to take care of the VFT over voltages generated as a result of pre-strikes and re-strikes during isolator operation. Maximum VFT over voltages peak shall not be higher than rated lightning impulse withstand voltage (LIWV) of the equipment. Necessary measures shall be undertaken by GIS manufacture to restrict maximum VFT over voltages lower than the LIWV. Manufacturer shall submit the study report of VFTO generated for GIS installation.	We will conduct only VFTO study for 400kV GIS. We have not envisaged any other study for substation. Please confirm.	Bidder shall refer Clause No 22.0.0 and 7.28.0 of "Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2". No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
6	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	VT shown with separate Disconnecter in line bay The VT shown in the line bay is with separate DS. However, we shall provide the VT with manual isolating link. We request your kind acceptance.	Bidder shall refer "Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001" and clause No 2.2.4 (g) of Sec-2-3-DTS_400 kV GIS SWGR_PSS 2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
7	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	HSES Shown for Busbar earthing Normal work in progress maintenance ES shall be sufficient for the earthing of GIS busbars considering the length of the GIS busbar and the insignificant charges it has to earth. We request your kind acceptance.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
8	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	VT shown with separate Disconnecter in busbar measurement The VT shown in the BBM bay is with separate DS. However, we shall provide the VT with manual isolating link. We request your kind acceptance.	Bidder shall refer "Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001" and clause No 2.2.1 (b) of Sec-2-3-DTS_400 kV GIS SWGR_PSS 2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
9	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Gas partitioning shown in the busbar Since the number of bays in the 400 kV substation is lesser, the qty. of gas in the busbar is quite less. Thus, We shall provide the busbars without any segregation in between. In our type tested design the busbars and disconnecter shall be in a separate gas compartment, thus the passive busbar arrangement shall be provided for 400 kV GIS. We request you to kindly accept the same. The same is supplied in all our previously executed projects and it is also meeting the service continuity requirements from the specification.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

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10	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Ct asked as a separate gas compartment on the outgoing side of the breaker CT being a passive equipment, shall not cause any impact when kept in the same gas compartment as DS on the outgoing side. Also, it doesn't affect service continuity in any manner, We request you kind acceptance in keeping the CT on the outgoing side in the same gas compartment as DS.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
11	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	ES asked as a separate gas compartment In our standard design, the ES and DS are in the same gas compartments. We request you to kindly accept the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
12	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Busbar ES asked as a separate gas compartment In our standard design, the busbar ES and busbar are in the same gas compartments. Busbar being a passive equipment in our design, the same does not impact the healthiness of gas in any manner. We request you to kindly accept the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
13	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	CT ratio missing CT ratio is missing in the SLD. Kindly inform the same.	Bidder shall refer Clause No (E) 3.4.0 of "Vol II Sec-2-4-DTS_400 kV GIS EQUIPMENT_PSS 2" and Note number 15 and 16 of Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001 No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
14	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Double breaker arrangement shown for Line bays Line bays are shown with double breaker arrangement. However, a double busbar single breaker arrangement also provides great amount of redundancy mainting the continuity of service. We request to kindly inform whether double busbar double breaker or double busbar single breaker arrangement is to be considered.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
15	Vol II Sec-1-GTS_PSS 2 R1	TRAINING	12.0.0	17 of 73	Bidder shall be responsible for providing training to Owner's personnel on offered systems at Bidder's Works/Bidder's Associate's Work/Site. It shall include training operators in the use of system, in operation and maintenance of the equipment to the extent that the Owner's personnel can make maintenance of the systems and shall be as per Clause no. 2.9.0 of this General Technical Specification (GTS). The bidder shall provide a training of suitable duration on all supplied materials especially GIS, CSD, Transformer, SAS, CRP, CCMS, PLCC, FOTE, SDH, Battery Chargers, UPS, PMU, equipment, converters, servers, special tools, testing kits etc. for Customer/Client's personnel to provide working knowledge of the equipment, operation and diagnostic tools, supervision and monitoring using local craft terminal. The training may be provided by the Contractor or its sub-vendor at the site itself, preferably during installation, and will include training materials and presentation equipment. No separate charges for training shall be payable to the Contractor. Specialized training shall be provided to the persons manning the centralized monitoring center and to the field support staff to ensure quick fault detection and restoration of the communication system. Training shall be provided to the maintenance persons on all communication equipment for its operation and maintenance.	Training shall be provide. However, any lodging, boarding and travelling charges of the trainees shall be excluded from GIS OEM scope of supply.	Bidder to note that this is an EPC contract, not equipment supply contract. Bidder shall refer Clause no.12.0.0 "Vol II Sec-1-GTS_PSS 2 R1". and Clause No. 43 of " Vol I Sec 4 GCC_PSS_2_R2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
16	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.2.1 (d)	2 of 28	The Surge arrestors for main buses shall be of GIS type only (applicable as per Insulation co-ordination study during detail engineering).	We shall consider the GIS type LA as per the SLD and we shall quote the optional rate for these. The insulation co-ordination study is excluded from GIS OEM scope.	Bidder to note that this is an EPC contract, not equipment supply contract. Bidder shall refer following Clauses of Tender A. Clause no 2.2.0 of "Vol II Sec-1-GTS_PSS2" B. Clause no 2.2.1 d) of "Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
17	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.2.11	6 of 28	On-line continuous Partial Discharge Monitoring (PDM) I. The system shall be capable for measuring PD in charged GIS environment as EHV which shall have bandwidth in order of 100 MHz–2GHz with possibility to select a wide range of intermediate bandwidths for best measurement results. The principle of operation shall be based on UHF principle of detection. II. The scope shall cover Engineering, supply, installation, testing and commissioning of partial discharge continuous monitoring system, with all necessary auxiliaries and accessories to make a complete system as per technical specification, including site demonstration of successful operation. Any items/accessories necessary to make the system fully functional for the trouble free online PD monitoring of complete GIS installation shall be considered as included in the scope.....	GIS shall be equipped with the required number of PD sensors. However, the online PD monitoring system/ kit shall be excluded from GIS OEM scope.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

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18	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.2.14	10 of 28	Continuous on-line monitoring and diagnostics systems to monitor gas density, gas pressure, etc., operating parameters such as current, voltage, temperature, etc. complete with sensors and integration of the systems with plant SAS & HPCMS system. Hybrid density monitor shall be provided.	With the help of normal density monitors the various alarms can be available in SCADA. Additionally, to know the exact pressure of any compartment, the GIS shall be equipped with the density monitors with dial. Kindly confirm whether the online gas monitoring is required which includes of display exact pressure values from SCADA.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
19	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.13.0	12 of 28	Recommended spares for 3 years of operation & maintenance.	GIS OEM do not recommend any spares for O&M. Kindly confirm the requirement of the same	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
20	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	DESIGN & CONSTRUCTION REQUIREMENTS FOR 400 kV GIS SYSTEM	7.4.0	15 of 28	Equipment shall be complete with all necessary supports, platforms (Continuous interconnecting all bays), ladders, staircases, catwalks, mechanism cabinets, internal cable raceways etc. for each bay and it shall be of extensible design.	We do not envisage the need of the walkways considering the height of the GIS. However, for any unlikely access to the high points we shall provide one qty A type movable portable ladder. Request your kind acceptance.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
21	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	LABELS AND DIAGRAM PLATE, RATING PLATES	17.1.0	20 of 28	Every GIS equipment and devices mounted in the cabinet/control panel shall be provided with individual labels with equipment designation/rating. Also, the cabinet/control panel shall be provided on the front with a non-rusting label engraved with the designation of the cabinet/control panel. LCC Label Plate must be bilingual and made of SS-304.	There shall not be a separate rating plate for modules like DS, ES. However, there shall be a central name plate for each bay which shall have all the important parameters from each module. In addition, we shall provide separate rating plate for CT and VT. Request you to kindly accept the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
22	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Routine Tests	22.2.0 (h)	24 of 28	h) Tests on complete assembled feeder bay 1) Dielectric voltage with stand I. Power frequency voltage test II. Lightning Impulse withstand voltage test III. Switching Impulse withstand voltage test IV. Partial discharge test	Lightning impulse and switching impulse ere the type tests and not the routine tests. Thus, the we shall not perform the routine tests for these tests instead already carried out type tests reports shall be submitted.	Bidder shall refer Amendment-1
23	General					Foundation bolts, anchor bolts, embedded steel shall be excluded from GIS OEM Scope of supply. However, support structures shall be included in our scope.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
24	General					We understand that the bus duct length of 525 m is single phase bus duct length. Kindly confirm	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
25	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Metering As per tender document, EPC have to consider the CT/PT for metering and ABT Meter purpose. We have understood that same is required at 33kV system not on 400kV System. Please confirm.	Bidder shall refer clause no. 2.0.0 of "Vol II Sec-2-9-DTS_Tariff Metering Panels_PSS - 2.pdf" and "Vol II FCE-1721125-EL-DWG- 400kVSLD -2100 - 001" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
26	Vol II FCE-1721125-EL-DWG-LAY-2100-036				400 KV Substation Single Line Diagram PSS-2	Building we have understood that the we have to construct 33kV Switchgear building and 400kV GIS Building for present bays only. Future expansion is not envisaged. Accordingly, Building size will be decided.	Bidder shall refer clause no. 3.0.0 of "Sec-2-1-DTS_DESIGN ASPECTS_PSS 2" and "Vol II FCE-1721125-EL-DWG- 400kVSLD -2100 - 001" and Vol II FCE-1721125-EL-DWG- 33kVSLD- 2100- 041 and Amendment-1. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
27	Vol III R5-GIPCL Contour Survey.part1, Part2, Part 3					Please provide contour layout with the Substation location, boundary coordinates	Bidder shall refer "Vol III R5-GIPCL Contour Survey Part-1", Vol III R5-GIPCL Contour Survey Part-2" and Vol III R5-GIPCL Contour Survey Part-3" for contour survey report for Entire RE Park. Bidder shall refer Amendment-1 for PSS coordinates.
28	Vol II Sec-2-26-CIVIL_PSS 2	SCOPE OF WORK	2.0 (2-a)	4 of 38	2. Site Development works a. Site Grading including Soil stabilization and slope protection.	Kindly confirm if any soil stability process need to perform on substation plot area. We presume that any soil stabilization by means of stone pile, Vibro compaction OR replacement of Poor soil by Stone + Good quality earth on plot area is not required. We presume only RCC Pile foundation for the major civil structure & building as per soil investigation report. Other soil stability process involve high cost factor and few specialiest vendor can do the job. Therefore required your firm confirmation on soil stability process at bidding stage.	General soil profile of the site is available in the preliminary soil investigation report of Entire RE Park, which is part of the bid document. Bidder to arrive soil improvement methodology based on available data. Final geotechnical investigation to be done by bidder and all foundation design shall be based on the same. Bidder shall comply with clause no 5.0 of Sec-2-26-Civil_PSS_Rev 3.Bidder shall comply with clause no 2.9.0 of Sec-1-GTS_PSS_Rev 3_Revised. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

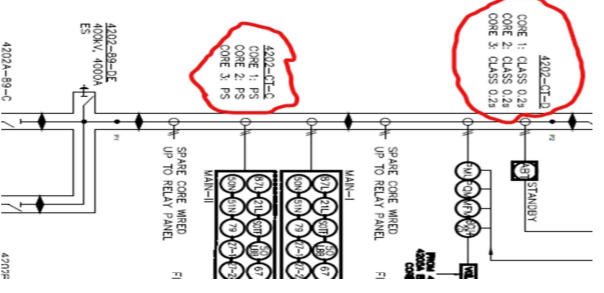
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29	Vol II FCE-1721125-EL-DWG-LAY-2100-035				OVERALL ELECTRICAL LAYOUT 400/33 KV GIS PSS-2 SUBSTATION (FOR TENDER PURPOSE ONLY)	We have considered the total Length of approach road = 100 m, please confirm.	Bidder shall refer clause no. 6.7 "Vol II Sec-2-26-CIVIL_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
30	Vol II Sec-2-26-CIVIL_PSS 2		4.8	4 of 38	Levels The works include contouring the entire plot area within the pooling substation boundary as per technical specification. Finished Ground level (FGL) shall be raised 900mm above average NGL by filling borrow earth (Borrow earth shall meet the Morth Specifications / Approval of Engineer in charge) for entire Pooling substation. Finished Floor level (FFL) for GIS building and Main control building shall be minimum 1000 mm above Finished Ground level (FGL). 33kV Switchgear buildings shall be Minimum 1500 mm above Finished Ground level. Any other building finished floor level (FFL) shall be minimum 700 mm above finished ground level (FGL). Switchyard equipment/ or any other foundations plinth shall be minimum 600mm above Finished Ground level (FGL). These are minimum elevation and can be increased. Roads, storm water drains, cable trench top levels shall be decided during detail engineering. All bought out earth material required to raise the FGL and FFL shall be non-expansive soil, and from burrow pit having sulphur express SO3 shall be less than 0.5%.	Please confirm the Finish ground level (FGL) for land development w.r.t Natural Ground level (NGL) & Main Road level/considering High Flood level	Bidder shall refer clause no 4.8 of Sec-2-26-Civil_PSS2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
31	Vol II Sec-2-26-CIVIL_PSS 2		4.8	4 of 38	Where the storm water drain comes in direct contact of the metal paving, 50mm dia hole shall be provided in drain wall just above FGL, in order to drain surface rain water into storm water drain and avoid flooding of water over metal paving.	Please confirm the Floor Finish level (FFL) for Buildings w.r.t Finish ground level (FGL)	Bidder shall refer clause no 4.8 of Sec-2-26-Civil_PSS2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
32	GENERAL					Please confirm the formation level (Top of Road) for Approach Road.	Bidder shall refer clause no 4.8 of Sec-2-26-Civil_PSS2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
33	Vol III 1 Soil Investigation_Part-1	LABORATORY AND FIELD TEST RESULTS	5	22 of 144		Please provide the Bore hole locations corresponding to Substation plot area.	General soil profile of the site is available in the preliminary soil investigation report of entire RE Park, which is part of the bid document. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
34	Vol II Sec-2-26-CIVIL_PSS 2	SITE DEVELOPMENT WORKS	6.4	5 of 38	Compound Wall Compound wall of 2.2 m height above FGL, with over and above 600 mm dia barbed wire concertina wire with HDG "Y-Post" angle, shall be provided around entire substation area. Material of construction for compound wall shall be either precast wall panels or masonry with plastering. Wall shall be resting on grade beam which in turn will be resting on columns and foundations. Coping wall shall be provided at top. Both surfaces (internal and external) shall be painted with weather proof paint. Contractor shall take into account the stability of boundary wall against any settlement.	We have consider pre cast boundary wall for the proposed substation area. Soil Filling will be protected by stone pitching in 30 degree inside the boundary line, please confirm.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
35	Vol II Sec-2-26-CIVIL_PSS 2	BUILDINGS AND CIVIL WORKS	8.6	13 of 38	Crushed Stone Paving and Anti-weed Treatment In the substation, metal spreading using 40mm crushed stone shall be provided for a thickness of not less than 150 mm and shall extend one meter beyond the respective areas. The sub grade of gravel area shall be compacted to 95% OMD. Before laying gravel fill, the top layer of soil shall be treated suitably by injecting approved anti weed chemicals as per manufacturers' recommendation. The Contractor shall submit for approval, the details of chemical proposed to be used before application of the same. Crushed stone shall be laid over Geotextile of sheet laid over soil. 150 dia holes shall be provided in geotextile sheet at 2m c/c for rainwater percolation into the soil. Sub grade shall have minor slope toward the storm water drain and weep holes shall be provided in trench wall for draining out of water.	We have not consider any yard PCC below Stone/gravel spreading in proposed substation area.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions..
36	Vol II Sec-2-26-CIVIL_PSS 2	BUILDINGS AND CIVIL WORKS	8.1	11 of 38	.....Foundation for all towers equipment support structure, equipment, railroad and poles shall be designed as per the recommendations of IS : 4091. The structural design of the foundation shall be done as per limit state method of design as given in IS:456 and considering the following partial safety factors on working load: • Normal and broken wire condition 1.5 • Broken wire condition with short circuit forces 1.2 The foundation design shall be done based on soil parameters obtained from the soil investigation report.....	We have consider factor of safety for design of Eqpt. structures, Tower Structure, building and all foundation as per Indian standards (IS). Please confirm.	Bidder shall refer clause no 3.0 of Sec-2-26-Civil_PSS2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
37	Vol II Sec-2-26-CIVIL_PSS 2	SCOPE OF WORK	2.0	1 of 382. Site Development works a. Site Grading including Soil stabilization and slope protection. b. Green Belt, Landscape development and horticulture including associated water supply system. c. Compound wall with gates. d. Internal roads and Box Culverts. e. Storm water drains and interconnection to outside main drains.....	We have not considered the rain water harvesting system in scope of work. Please confirm.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

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38	Vol II Sec-2-26-CIVIL_PSS 2	SITE DEVELOPMENT WORKS	6.6	5 of 38	Storm water Drain Network Storm water drainage network shall be provided for the entire substation area and the same shall be discharging to main storm water network of the solar park near the approach road. Drain shall be of RCC construction. The drawings shall indicate the basic drainage plan from the various units within the Substation. Invert level of drainage network and at outfall point shall be decided in such a way that water can easily be discharged outside the station Boundary. The maximum velocity and non-silting velocity shall be ensured.	Please provide the RL for the Outfall point of Storm Water drain Discharge with respective FGL	It shall be decided during detailed engineering. Bidder shall refer clause no. 6.6 of "Vol II Sec-2-26-CIVIL_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
39	Vol II Sec-2-26-CIVIL_PSS 2	FABRICATION AND ERECTION OF STRUCTURAL STEEL	11.1	26 of 38	Structural steel All structural steel shall be of tested quality. Rolled steel sections and plates shall conform to IS: 2062. Steel tubes where used for equipment support structure shall conform to IS: 1161.	We have consider Lattice type structure for equipment & LM Please confirm.	Bidder shall refer clause no. 7.0 of "Vol II Sec-2-26-CIVIL_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
40	Vol II Sec-2-26-CIVIL_PSS 2		6.9	6 of 38	Car parking Aesthetically pleasant car parking shed shall be provided, suitable to park 10 nos. of four wheelers and Twenty Nos of two wheelers at suitable location to be decided during detail Engineering. The orientation of Roof and steel structure shall be in such a way to install roof Mounted Solar panels in future.	We like to propose 1 No. parking shed for 5 cars inside the substation area. Please confirm the same.	Refer Table 3 Minimum area Requirement of "Vol II FCE-1721125-EL-DWG-LAY-2100-035.pdf" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
41	Vol II Sec-2-26-CIVIL_PSS 2	BUILDINGS AND CIVIL WORKS	8.4	13 of 38	Substation control building This building shall be RCC Frame structure up to 3.5 meter height with 230 mm thick brick wall. Above 3.5 meter is PEB (INCL.ROOF & COLUMN) with Double sandwich metal sheet roofing supported on structural steel. The control rooms shall have a clear height of 3.5m between the bottom of false ceiling and top of flooring. Plinth protection shall be provided all around the building. Substation control building consist of CRP & SAS room, server room, LV Panel room ,PSS in charge room, maintenance room, conference room, Record room, locker room, technician room, Engineers room, Laboratory, Reception & waiting area ,Entrance foyer etc. and as given in Sec-2-1 Design Aspects Entire substation control building shall be provided with false ceiling. False ceiling shall be designed aesthetically and properly arranging the supply air diffuser, return air grills, fire detectors and lights. The control building shall have Pantry, Toilet and Bathroom facilities.	We have not considered any special elevation effect like structural glazing, ACP cladding for any building. Please confirm.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
42	Vol II Sec-2-26-CIVIL_PSS 2	BUILDINGS AND CIVIL WORKS	8.7	14 of 38	Transformer Yard Foundations Transformers shall be founded on RCC foundations with rails on the top and oil soak pits filled with 40mm hard stone aggregate. Jacking pads shall be provided. Size of the soak pit shall be decided based on the transformer details and oil volume and applicable CEA Regulations (including draft regulations). Material of transformer oil piping shall be suitable for type of oil and applicable temperature resistance. Fire wall of adequate thickness and height, if required as per TAC / CEA regulations shall be provided for transformers.	We like to propose bending radius for Traylor movement in line with the PGCIL projects. Request to please accept the same.	It shall be decided during detailed engineering. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions
43	Vol II Sec-2-26-CIVIL_PSS 2	BUILDINGS AND CIVIL WORKS	8.7	14 of 38	RCC foundations shall be provided with rail to transport transformers out of transformer yard during maintenance. To facilitate such placing and transportation of transformers, road with suitable width and turning radius shall be provided Where rails cross the fencing, if required, fencing shall be made of removable type to facilitate transport of transformer. Suitable RCC foundations for Capacitor Banks shall be provided.	We have considered the RCC Wall type foundation for transformer & not considered the Block/plinth type foundation, please confirm.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions
44	Vol II Sec-1-GTS_PSS 2 R1	GENERAL REQUIREMENTS	5.8.0	13 of 73	Required construction power and construction water shall be arranged by bidder only.	During site visit we found major problem for availability of construction and drinking water. Kindly confirm nearest source for water availability, if it can be provided from GIPCL.	Bidder shall refer clause no. 5.8.0 of "Vol II Sec-1-GTS_PSS 2 " No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
45	Vol II Sec-1-GTS_PSS 2 R1	GENERAL REQUIREMENTS	5.8.1	14 of 73	The Vendor shall arrange stores for storing the equipment during erection. All equipment during storage shall be protected against damage due to acts of nature or accidents. The storage instructions of the equipment manufacturer / Owner shall be strictly adhered to.	Space for site office, stores, labour camp can be made available nearby to the substation area by the GIPCL. Please confirm.	GIPCL shall provide reasonable space for storage and site office construction subject to availability. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions
46	Vol II Sec-1-GTS_PSS 2 R1	GENERAL REQUIREMENTS	5.8.0	13 of 73	Required construction power and construction water shall be arranged by bidder only.	Kindly confirm if any PGVCL/other Construction power line can be available by GIPCL upto site location.	Bidder shall visit the site for PGVCL/ other Construction power line. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
47	Vol I Sec 4 GCC_PSS_2_R2	STATUTORY OBLIGATIONS	78.1	45 of 55	The statutory obligations arising from IECG, CEA electrical inspector office, PTCC, Factory Inspectorate, Labour Inspectorate, Chief Controller of Explosives, Pollution Control Board (PCB), National building code and relevant rules, local bodies and other state or central Govt. agencies like Railways, Indian Army, BSF shall be scrupulously complied with Charges shall be borne by contractor and original receipts to be provided to owner for permanent record.	Site area located under BSF/Police control and surveillance area. All permission required from BSF/Police shall be arranged by GIPCL. Please confirm.	Bidder shall refer clause no. 4.0 of Vol I Sec 6 ECC_PSS_2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries
48	Vol II Sec-2-26-CIVIL_PSS 2	COMMON REQUIREMENTS FOR CIVIL WORKS	9.4	16 of 38	Excavation and Backfilling Excavation and backfilling shall be accordance to IS standards. Contractor shall carry out deep / shallow excavation by considering safety at side against any collapse. Temporary design against sliding and supports shall be providing by contractor. Backfilling shall be with non-expansive soil. Excavated non-expansive soil can also be used for backfilling subjected to Field and laboratory test by bidder at his own cost and approval from owner. Any organic matter like roots and barks of trees shall be removed, if found at foundation level and surplus excavation shall be filled with PCC 1:4:8.	Soil/Earth required for filling purpose can be brought out from nearby vacant high terrain plot with prior permission from GIPCL. Kindly confirm.	Bidder shall refer clause no. 9.4 of Vol II Sec-2-26-CIVIL_PSS 2". No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
49	General					As per site visit it was found that pile work is required so Kindly provide SBC report for the same	Bidder shall refer clause no. 2.0 of Vol II Sec-2-26-CIVIL_PSS 2". No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
50	Vol I Sec 4 GCC_PSS_2_R2	LIQUIDATED DAMAGES FOR DELAY IN COMPLETION	25.2	24 of 55	For calculation of Liquidated Damages, date of issue of LOI shall be the reference date.	For calculation of Liquidated Damages, date of issue of LOI shall be the reference date. However we assume that encumbrance free land shall be handed over to bidder soon after issue of LOI. If any delay in land hand over shall be counted as a delay in calculation of LD.	Bidder shall refer clause no 25.0 of Vol I Sec 4 GCC_PSS_2_R2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
51	Vol I Sec 2 ITB_PSS_2_R2	BANK GUARANTEES & EMD	11.6 (i)	13 of 14	Security Deposit cum Performance Bank Guarantee (SD/PBG) as per the format given in Appendix 16 (B): Format of Bank Guarantee for Security Deposit/ Performance Bank Guarantee, shall be furnished in favour of Gujarat Industries Power Company Limited (GIPCL). The Successful Bidder shall submit Security Deposit cum Performance Bank Guarantee of 10% of EPC Contract Price, within 30 days after issuance of LOI as per the format given in Appendix 16(B). The validity period of PBG should be for a total period of up to 39 months (i.e. 15 months completion period + 12 months defect liability period + 12 months claim period) from the date of Lol, the PBG shall have to be extended for further 6 months beyond the due date and when asked by GIPCL based on the revised approved completion schedule of PSS-2. However, in case Bidder fails to submit PBG within 30 days after issue of date of LOI, GIPCL reserves the right to cancel LOI and to recover all cost and liability thereof from Bidder. Validity including Claim period of SD/PBG shall be of 39 months from date of Lol or, extended further as asked by GIPCL based on the revised approved completion schedule of PSS-2.	As per tender clause, The validity period of PBG should be for a total period of up to 39 months (i.e. 15 months completion period + 12 months defect liability period + 12 months claim period) from the date of Lol. Where as the validity period of PBG should be 27 months and claim period should be 12 months (i.e. 15 months completion period + 12 months defect liability period + 12 months claim period). Please clarify.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
52	Vol I Sec 2 ITB_PSS_2_R2	BANK GUARANTEES & EMD	11.6 (ii)	13 of 14	Bank guarantee for an amount equal to 3% of the EPC contract price shall be furnished by the successful bidder for Power Transformer and Gas Insulated Switchgear (GIS) as per format enclosed (Appendix-16 (B)). The said Bank Guarantee for has to be furnished 30 days before the completion of Defect Liability Period and should be valid up to 60 months from the date of taking over by GIPCL/ Owner. For the Other equipment/ Systems/ Plants the Contract performance bank guarantee period shall be as per clause above.	Below mentioned are our understanding regarding 3% PBG, please clarify- We need to submit PBG of 3% within 30 days before expiry of DLP & the validity period of PBG should be 60 months from the date of Taking Over. It means we need to provide PBG of 3% valid for 48 months from DLP.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
53	Vol II Sec-1-GTS_PSS 2 R1	SCOPE OF WORK AND SERVICES	2.8.0	8 of 73	The scope of supply shall also include the following:..... AMC support for 400kV GIS, 400kV Transformers with Fire Protection System (FPS), Battery Chargers, UPS, PLCC, FOTE Panel & related system, SAS, CCMS, Fire Protection system, EOT crane, DG Set (Mechanical & Electrical both). Bidder shall refer to Volume-II, section 2-33-DTS_AMC_PSS 2 AMC support for all the software.....	Kindly exclude AMC from scope of work as being EPC contract.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
54	-	-				We would like to inform you that, CT data is not provided Kindly provide the same	Bidder shall refer Clause No (E) 3.4.0 of "Vol II Sec-2-4-DTS_400 kV GIS EQUIPMENT_PSS 2" and Note number 15 and 16 of Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
55	Vol II Sec-1-GTS_PSS 2 R1	SCOPE OF WORK AND SERVICES	2.2.0 (o)	6 of 73	All work at CTUIL / ISTS/ remote Substation end for PQ meter and its PPC RIO panel, FOTE (data+ voice+ tele protection), PLCC (data+ voice+ tele protection), Power Tel/PGCIL Subsidiary, Broadband, Splicing in FODP/FODF, installation of FODP/FODF, Approach cable splicing in FODP/FODF and laying up to transmission tower shall be in scope of bidder. Taking CTUIL / ISTS / RLDC work permit, clearance, approval of location where all system shall be installed, power supply for system and construction, tools and tackles, vehicle permit etc. shall be scope of bidder.	We would like to inform you that the same shall not be in scope GIS it shall be in EPC scope of supply. Kindly accept the same.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
56	Vol II Sec-1-GTS_PSS 2 R1	TERMINAL POINTS	4.0.0 (c)	10 of 73	c) All cables from Lighting DB for the purpose of lighting within the pooling substation package, i.e. Outdoor Yard Lighting, GIS building illumination, control room building illumination, internal roads & area lighting for PSS-2 package area etc. shall be laid by bidder.	We would like to inform you that the same shall not be in scope GIS it shall be in EPC scope of supply. Kindly accept the same.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
57	Vol II Sec-1-GTS_PSS 2 R1	GENERAL REQUIREMENTS	5.8.0	13 of 73	Required construction power and construction water shall be arranged by bidder only.	We would like to inform you that the same shall not be in scope GIS it shall be in EPC scope of supply. Kindly accept the same.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries
58	Vol II Sec-1-GTS_PSS 2 R1	GALVANIZING AND PAINTING	6.2.0 & 6.3.0	14 of 73	6.2.0 For outdoor equipment, all enclosures shall be factory-painted with epoxy-based paint. Painting procedure shall be suitable for saline environment as per ISO 12944. Corrosivity grade C5-M Grade shall be used for outdoor equipment. Shade of paint shall be RAL 7035. Painting shall be carried out by approved process. Sufficient quantity of touch-up paint shall be furnished for application at site. 6.3.0 All indoor equipment, panels and cabinets shall be pre-treated as per IS 6005 before being factory-painted with epoxy based paint shade of paint shall be RAL 7035. Corrosivity grade C4 Grade shall be used for indoor equipment. Painting shall be carried out by approved process. Sufficient quantity of touch-up paint shall be furnished for application at site.	We would like to inform you that, as per Hyosung standard practice we provide RAL 7032 Kindly accept the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions
59	Vol II Sec-1-GTS_PSS 2 R1	TRAINING	12.0.0	17 of 73	TRAINING Bidder shall be responsible for providing training to Owner's personnel on offered systems at Bidder's Works/Bidder's Associate's Work/Site. It shall include training operators in the use of system, in operation and maintenance of the equipment to the extent that the Owner's personnel can make maintenance of the systems and shall be as per Clause no. 2.9.0 of this General Technical Specification (GTS). The bidder shall provide a training of suitable duration on all supplied materials especially GIS, CSD, Transformer, SAS, CRP, CCMS, PLCC, FOTE, SDH, Battery Chargers, UPS, PMU, equipment, converters, servers, special tools, testing kits etc. for Customer/Client's personnel to provide working knowledge of the equipment, operation and diagnostic tools, supervision and monitoring using local craft terminal. The training may be provided by the Contractor or its sub-vendor at the site itself, preferably during installation, and will include training materials and presentation equipment. No separate charges for training shall be payable to the Contractor. Specialized training shall be provided to the persons manning the centralized monitoring center and to the field support staff to ensure quick fault detection and restoration of the communication system. Training shall be provided to the maintenance persons on all communication equipment for its operation and maintenance.	We would like to inform you that the same shall not be in scope GIS it shall be in EPC scope of supply. Kindly accept the same.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
60	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	Indoor GIS System	2.2.3 (a)	3 of 28	One (01) three phase SF6 insulated circuit breaker complete with spring operated mechanism with Controlled Switching Device (CSD) and electrically gang operated.	We would like to inform you that, As per hyosung type tested model For 400kV GIS we provide Single phase circuit breaker arrangement. Kindly accept the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions
61	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	Indoor GIS System	2.2.10	6 of 28	An on-line continuous Partial Discharge Monitoring (PDM) system shall be designed to provide an automatic facility for the simultaneous collection of PD data at multiple points on the GIS & its associated GIB ducts and Voltage Transformers adopting UHF technique. The data stored shall provide a historical record of the progress of PD sources and shall identify the areas of maximum activity.	We would like to inform you that, we have considered the same in our special tool list. Kindly clarify the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions
62	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	Indoor GIS System	2.2.13	8 of 28	Electric Overhead Travelling (EOT) Crane.....	We would like to inform you that, the requirement of EOT crane is not part of GIS scope of supply. Supply of EOT crane and capacity calculation shall be EPC scope of supply. GIS OEM will provide heaviest weight information required. Kindly accept the same.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
63	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	DESIGN & CONSTRUCTION REQUIREMENTS FOR 400 kV GIS SYSTEM	7.3.0	15 of 28	Gas enclosures shall be designed to withstand high vacuum by provision of suitable reinforcement(s) at all the required locations. The gas filled enclosures shall conform to relevant pressure vessel code of ASME/CENELEC/DIN for Pressure Vessel.	As material codes are country based codes For pressure vessel code, We follow KS-D6008 with Equivalent EN code (ENAC-42100). Also we will conduct all pressure test for enclosures as per Cl. 6.103-IEC 62271-203:2011. Kindly confirm the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
64	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	DESIGN & CONSTRUCTION REQUIREMENTS FOR 400 kV GIS SYSTEM	7.25.0	17 of 28	The average intensity of electromagnetic field shall not be more than 50 micro tesla. The Bidder shall furnish all calculations and documents in support of above during detailed engineering.	We would like to inform you that, the average field intensity shall be as per OEM design. Kindly accept the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
65	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	DESIGN & CONSTRUCTION REQUIREMENTS FOR 400 kV GIS SYSTEM	7.27.0	17 of 28	The switchgear shall have provision for connection with ground mat risers. This shall consist of grounding pads to be connected the ground mat risers with in the vicinity of the equipment.	We would like to inform you that, the GIS OEM shall be responsible only for the design details for the GIS earthing. The material required for the earthing from GIS equipment to earth riser and from earth riser to main earth mat shall be considered under EPC scope of supply. Kindly accept the same.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
66	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	FUSES (if required)	10.1.0	18 of 28	Only HRC fuses shall be used & shall have a rupturing capacity of not less than 80 kA at 220V DC.	We would like to inform you that, we shall provide MCB instead of HRC link type fuses for short circuit protection in LCC for motor of CB. and can be used again which is advantageous over fuses. Kindly accept the same.	Bidder to note that Clause No 10.0.0 of Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2 states that " FUSES (if required) " No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

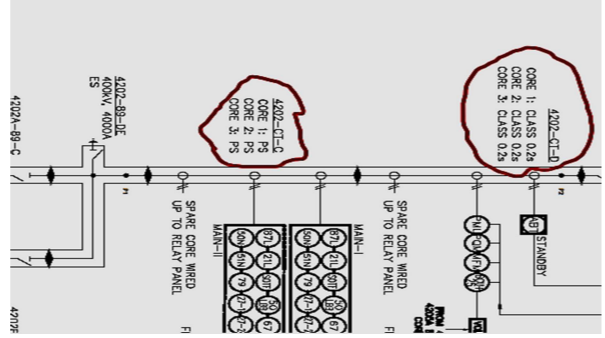
Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries
67	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	LIST OF TESTS TO BE CONDUCTED FOR 400 kV GIS PACKAGE	22.1.0 (10)	23 of 28	Electromagnetic compatibility tests (EMC)	We would like to inform you that, Electromagnetic test applicable on low voltage circuits in case of electronic components are used. kindly note our GIS don't have any electronic componenets in LV circuit hence EMC test is not applicable. Kindly accept the same	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
68	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	DRAWINGS AND DOCUMENTS TO BE SUBMITTED AFTER AWARD OF CONTRACT	26.7.0	27 of 28	Insulation coordination and lightning protection design calculations	We would like to inform you that, insulation co-ordination shall be in EPC scope. Kindly accept the same.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
69	Vol II Sec-2-4-DTS_400 kV GIS Equipment_PSS 2	RATING	3.1.0 (i)	1 of 15	Class: E2-M2-C2 as per IEC-62271-100	We would like to inform that We comply to E1 electrical Endurance class for C.B. Kindly accept the same.	Bidder shall refer clause no. 3.1.0 of " Vol II Sec-2-4-DTS_400 kV GIS Equipment_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions
70	Vol II Sec-2-4-DTS_400 kV GIS Equipment_PSS 2	DESIGN AND CONSTRUCTIONAL FEATURES – DISCONNECTING SWITCHES	4.14.0	7 of 15	The disconnectors and safety grounding switches shall have a mechanical key (pad locking key) and electrical inter-locks to prevent closing of the grounding switches when isolator switches are in the closed position and to prevent closing of the disconnectors when the grounding switch is in the closed position.	We would like to inform that we shall provide only Electrical interlock however the supply of mechanical locking shall be in EPC scope of work. Kindly confirm the same.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
71	Vol II Sec-2-4-DTS_400 kV GIS Equipment_PSS 2	OPERATIONAL REQUIREMENTS	4.8.0	2 of 15	Trip Circuits:Two independent tripping circuits, valves, pressure switches and coils to be provided for connection to different set of relay. The circuits shall operate correctly under all operating conditions upto rated breaking capacity and at all values of supply voltage between 70% to 110% of rated supply voltage. Trip coil supervision to be provided in both open and close position.	We would like to inform you that, as per standards, the range for suitable of operation for Closing coil: 85% to 110% Trip coil shall be 70% to 110%. Kindly confirm the same.	Bidder shall comply with clause no (A) 4.8.0 of "Vol II Sec-2-4-DTS_400kV GIS Equipment- PSS-2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
72	Vol II Sec-2-4-DTS_400 kV GIS Equipment_PSS 2	RATING	3.1.0 (vii)	5 of 15	Rated capacitive current make and break capacity: 0.50A	We would like to inform you that, the same shall be as per IEC standard. Kindly confirm the same	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
73	Vol II Sec-2-4-DTS_400 kV GIS Equipment_PSS 2	DESIGN AND CONSTRUCTION FEATURES	4.1.3	12 of 15	The particulars of the various cores may change within reasonable limits as per the requirements of protection relay supplier. The manufacturer is required to have these values confirmed from the purchaser before proceeding with design of the cores. The other characteristics of CTs shall be as given in Technical Parameter of Current Transformer.	We would like to inform you that, kindly provide the detailed CT parameters for the checking CT core height. Any further change in CT parameters leading to stringent ration shall have cost implications. Kindly accept the same.	Bidder shall refer Clause No (E) 3.4.0 of "Vol II Sec-2-4-DTS_400 kV GIS EQUIPMENT_PSS 2" and Note number 15 and 16 of Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001 No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
74	Vol II Sec-2-4-DTS_400 kV GIS Equipment_PSS 2	DESIGN AND CONSTRUCTION FEATURES	4.1.17	13 of 15	Tariff metering CT of GIS is specified and preferred due to inherent technical advantages, however, if GIS CT is not acceptable by competent authorities than EPC contactor shall provide AIS CT in place of tariff metering core of GIS CT. EPC contactor shall finalize this in advance with valid justification.	We would like to inform you that, tariff metering is not in out scope of work,tariff metering is outdoor AIS type . Kindly accept the same.	Bidder shall refer clause no. 2.0.0 of "Vol II Sec-2-9-DTS_Tariff Metering Panels_PSS - 2.pdf" and "Vol II FCE-1721125-EL-DWG- 400kVSLD -2100 - 001" and Vol II FCE-1721125-EL-DWG-33kVSLD-2100-041. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
75	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	Indoor GIS System	2.2.1(i)	2 of 28	End Piece (Interface) module with the test link for future extension of Bus bar module. The end piece module shall be designed in such a way so that future GIS modules may be tested without extending voltage to existing bus by removing the test link. The end piece module shall be provided on either end without any drilling, cutting, welding, on existing equipment of any manufacturer and without the necessity of moving or dislocating the existing switchgear bays. End Piece (Interface) module with the test link for future extension shall be provided. The complete design detail of interface modules shall be provided during detail engineering such as cross section, enclosure material, enclosure dimensions (inner & outer), Flange diameter (inner & outer), conductor cross-section & connection arrangement, bolt spacing & dimension, rated gas pressure, Gasket detail etc. Further GIS manufacturer supplying GIS under present scope shall furnish all the required details in addition to mentioned above necessary for design and successful implementation of an interface module during later stage while extending GIS by any other GIS manufacturer, without any help of GIS manufacturer who has supplied the GIS equipment in present scope.	We would like to inform you that, we have considered the extension module at both ends as per coustomer SLD Kindly Confirm the same.	Extension at both ends shall be considered as per Vol II FCE-1721125-EL- DWG- 400kVSLD- 2100-001. Bidder shall comply with clause no 2.3.0 of " Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries
76	Vol II Sec-2-3-DTS_400 KV GIS SWGR_PSS2	DESIGN & CONSTRUCTION REQUIREMENTS FOR 400 kV GIS SYSTEM	7.3.0	15 of 28	Gas enclosures shall be designed to withstand high vacuum by provision of suitable reinforcement(s) at all the required locations. The gas filled enclosures shall conform to relevant pressure vessel code of ASME/CENELEC/DIN for Pressure Vessel.	As material codes are country based codes .For pressure vessel code , We follow KS-D6008 with Equivalent EN code(ENAC-42100). Also we will conduct all pressure test for enclosures as per 6.103-IEC 62271-203:2011. Kindly confirm the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
77	Vol II Sec-2-3-DTS_400 KV GIS SWGR_PSS2	Indoor GIS System	2.2.3 (e and f)	3 of 28	e) Three (3) single phase outdoor AIS type surge arrestors for mounting in the transformer yard. f) Minimum three (3) post insulators for mounting in the transformer yard, to support overhead connection to LA/Surge Arrestors. (In case of more support insulators are required, same shall be provided without any extra cost to the owner).	We would like to inform you that, the same is not in GIS scope supply scope of AIS will be be in EPC scope of work. Kindly Clarify the same.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
78	Vol II Sec-2-3-DTS_400 KV GIS SWGR_PSS2	LOCAL CONTROL CUBICLE / PANEL	8.3.0	18 of 28	Mimic diagrams shall be provided on local control panels. The mimic strips shall be made of anodized aluminium and shall be screwed onto the panel. Colours of the various voltages of the mimic bus shall be subject to the approval of the Purchaser/comply with relevant IEC standard. The width of mimic strip shall not be less than 5 mm. Discrepancy switches and semaphore indicator shall be provided on the mimic diagram as approved in during detailed engineering.	We would like to inform you that, the same shall be considered as per OEM recommendations. Kindly confirm the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
79	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001					We would like to inform you that, We are consider these CT (CT-C & CT-D) Position, In-between ES and CB of 765/400 KPS BAY. Kindly Accept the same.	Bidder shall comply "Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001" . No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
80	Vol II Sec-2-3-DTS_400 KV GIS SWGR_PSS2	Indoor GIS System	2.2.4(d)	3 of 28	Five (5), three phase, single pole group operated safety earth switches, complete with manual and motor driven operating mechanism.	We would like to inform you that, there is discrepancy in Customer SLD & Section project. In SLD only 4 earth switch are shown but in section project 5 earth switch are mentioned. We have considered as per SLD. Kindly confirm the same.	No such discrepancy observed. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
81	General					Please confirm if EPC Company (who is not Manufacturer of GIS) can participate with only one GIS OEM	Bidder shall refer clause no. 2.2.1. of " Vol I Sec 2 ITB_PSS_2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
82	General					Please onfirm if GIS OEM can provide support to Multiple EPC Company	Bidder shall refer clause no. 2.2.1. of " Vol I Sec 2 ITB_PSS_2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
83	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE- B: BILL OF QUANTITY : Table -1 BOQ for PSS-2	Sr.No-01	21 of 73	Double bus-single breaker scheme: Factory assembled, metal-enclosed, SF6 GIS bay including GIB and relevant support structures with associated Breaker with CSD, CT's, Disconnecting Switches, earth switches and other required accessories etc. for Power Transformers. Unit: Lot, Quantity: 04.	As per the referred clause , We understand that GIB length for line bay and Transformer bay shall be part of respective line bay GIS module & transformer bay GIS module. Pls confirm Our understanding.	Bidders' understanding is correct. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries				
84	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE- B: BILL OF QUANTITY : Table -1 BOQ for PSS-2	Sr.No-5 & 6	21 of 73	Sr.No-5 - Space for future Transmission Line Bay (at GIS building & AIS/outdoor portion) with Double Bus-Double Breaker scheme (without Line Reactor) - NO Equipment required to be considered under PSS-2 vendor scope. Unit: Lot, Quantity: 01 Sr.No-6 -Space for future Bus Reactor Bay (GIS & AIS) with Double Bus-Double Breaker scheme - NO Equipment required to be considered.Unit: Lot, Quantity: 01	As per the referred clause , We understand that bidder has to freeze the Size of 400KV GIS building considering below number of 400kV GIS bays:- i) Supply of 400KV Line bay GIS module- 1NOS. ii) Supply of 400KV Transformer bay GIS module - 4NOS. iii)Supply of 400KV Bus coupler GIS module- 1NOS. IV) Supply of BUS VT- 2 NOS. V) Only space provisions for future line bay - 1NOS. VI) Only space provisions for future Bus reactor bay - 1NOS. Pls confirm Our understanding. Pls also Confirm that bay orientation shall be as per the Tender SLD.	Bidder shall refer clause no. 2.2.0. of " Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2" and Vol II FCE-1721125-EL-DWG-LAY-2100-035 and refer Amendment -1 No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.				
85	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE- B: BILL OF QUANTITY : Table -1 BOQ for PSS-2	Sr.No-9	21 of 73	<table border="1"> <tr> <td>9)</td> <td>400 KV, GIS Single Phase Surge Arrester for Bus-A & Bus-B (Total – 06 Nos.) - Only if required based on system study</td> <td>As Applicable</td> </tr> </table>	9)	400 KV, GIS Single Phase Surge Arrester for Bus-A & Bus-B (Total – 06 Nos.) - Only if required based on system study	As Applicable	As per the referred clause , Pls let us know the requirement of 400KV GIS Single phase surge Arrester for BUS-A & BUS-B.	Bidder shall refer clause no. 2.2.0. of " Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.	
9)	400 KV, GIS Single Phase Surge Arrester for Bus-A & Bus-B (Total – 06 Nos.) - Only if required based on system study	As Applicable									
86	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE- B: BILL OF QUANTITY : Table -1 BOQ for PSS-2 SCOPE OF WORK AND SERVICES	Sr.No-12 & 2.2.0(o)	21 of 73 & 6 of 73	<table border="1"> <tr> <td>12)</td> <td>Power line carrier communication system with EPBAX at GIPCL pooling substation</td> <td>Set</td> <td>01</td> </tr> </table> <p>o) All work at CTUIL / ISTS/ remote Substation end for PQ meter and its PPC RIO panel, FOTE (data+ voice+ tele protection), PLCC (data+ voice+ tele protection), Power Tel/PGCIL Subsidiary, Broadband, Splicing in FODP/FODF, installation of FODP/FODF, Approach cable splicing in FODP/FODF and laying up to transmission tower shall be in scope of bidder. Taking CTUIL / ISTS / RLDC work permit, clearance, approval of location where all system shall be installed, power supply for system and construction, tools and tackles, vehicle permit etc. shall be scope of bidder.</p>	12)	Power line carrier communication system with EPBAX at GIPCL pooling substation	Set	01	As per the referred clause , there is discrepancy regarding scope of work of PLCC AND FOTE at CTUIL/ISTS end. Pls clarify the clarity regarding scope of supply of PLCC & FOTE panel at CTUIL end.	Bidder shall refer clause no. 2.2.0. of " Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2" and Clause No. 2.0.0 of "Vol II Sec-1-GTS_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
12)	Power line carrier communication system with EPBAX at GIPCL pooling substation	Set	01								
87	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE- B: BILL OF QUANTITY : Table -1 BOQ for PSS-2	Sr.No-13	21 of 73	Relay panel with numerical relays a) For Transmission Line feeder (Separate panels for Main-I and Main-II protection) Set 1 b) For Transformer feeders (Separate panels for Group-I and Group-II protection) Sets 4 c) For Bus Bar protection (Separate panels for Main-I and Main-II protection) Set 1 d) For Bus Coupler Set 1	As per the referred clause , we undesratnd that the supply of Realy panel with numerical relays for future bay shall not be under present scope of supply. Pls confirm.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.				
88	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE- B: BILL OF QUANTITY : Table -1 BOQ for PSS-2	Sr.No-16	22 of 73	Common Tariff metering panel with all ABT meters for 400 KV system including provision of spare meters. (Number of panels will be as per requirement) Lot 1	As per the referred clause, Pls let us know the number of common metering panel required for ABT meters. OR bidder is free to decide the number of common metering panel required for mounting of ABT meters.	Bidder shall refer Clause no.4.1.3 of "Sec-2-9-DTS_Tariff Metering Panels_PSS - 2". No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.				
89	Vol II FCE-1721125-EL-DWG-LTSLD-2100-026				SLD for 415 V AC System-PSS-2	PARK INFRASTRUCTURE DB As per the referred clause , We understand that the Bus coupler is not required for busbar of 415V park infrastructure DB. Pls confirm our understanding.	Bidder shall refer " Vol II FCE-1721125-EL-DWG-LTSLD-2100-026" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.				

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries												
90	Vol II FCE-1721125-EL-DWG-LTSLD-2100-026					As per the attached dwg of park infrastructure DB , bidder understands that the MFM has to be supplied for each outgoing feeder. Pls confirm our understanding.	Bidder shall refer clause 4.9.0 of " Vol II Sec-2-15-DTS_LT SWITCHBOARDS_PSS 2" and Vol II FCE-1721125-EL-DWG-LTSLD-2100-026. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.												
91	Vol II Sec-2-15-DTS_LT SWITCHBOARDS_PSS 2	Feeder list	8.1.0 & 8.2.0	13 to 15	<p>8.1.0 LIST OF FEEDERS OF 415 V MAIN STATION SERVICE BOARD (MINIMUM REQUIREMENT)</p> <p>8.2.0 LIST OF FEEDERS OF 415 V PARK INFRASTRUCTURE DISTRIBUTION BOARD: (MINIMUM REQUIREMENT)</p>	As per the referred clause , We understand that the required number of outgoing feeder list and its ampere rating shall be as per the given details in LT switchboard specification. Pls confirm Our understanding. No extra outgoing feeder is required by bidder side apart from the given in LT switchboard specification.	Bidder shall refer clause 8.0.0 of " Vol II Sec-2-15-DTS_LT SWITCHBOARDS_PSS 2" and Please Refer Amendment-1 No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.												
92	Vol II Sec-2-17-DTS_UPS SYSTEM_PSS 2	TECHNICAL REQUIREMENTS	4.2.0	2 of 8	Vendor shall carry out sizing calculation and provide required rating for GIPCL approval.	<p>As per the referred clause , we understand that the following load required for sizing the AC UPS System.</p> <ul style="list-style-type: none"> i) ABT Metering system ii) SAS ,SCADA System iii) Auxiliary supply to LT & HT Electrical system iv) Emergency lighting v) CCTV For PSS -II Switchyard area vi) Fire system vii) WSS viii) GPS ix) Printer <p>Apart from above no other load are required for sizing the 240V AC UPS System . Pls confirm bidder understanding.</p>	Bidder shall refer "Vol II Sec-2-17-DTS_UPS SYSTEM_PSS 2" and " Vol II Sec-1-GTS_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.												
93	Vol II Sec-1-GTS_PSS 2 R1 & Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001	ANNEXURE- B: BILL OF QUANTITY : Table -1 BOQ for PSS-2	Sr.No-7	21 of 73	<table border="1"> <tr> <td>7)</td> <td>Single phase oil filled capacitive voltage transformer for 400kV transmission line to KPS-II (CTUIL) – Outdoor Equipment (AIS)</td> <td>Nos.</td> <td>03</td> </tr> </table>	7)	Single phase oil filled capacitive voltage transformer for 400kV transmission line to KPS-II (CTUIL) – Outdoor Equipment (AIS)	Nos.	03	As per the referred clause, It is written that 3NOS 400KV OUTDOOR AIS CVT is required at CTUIL end but in tender SLD , 3NOS. 400KV CVT is shown in PSS-II end. Pls clarify the discrepancy.	Bidder shall refer clause no. 2.0.0 of "Vol II Sec-2-5-DTS_CVT_PSS 2 " and Table -1 BOQ for PSS-2 of Vol II Sec-1-GTS_PSS 2". Bidder may note that Line to KPS-II is emanating from PSS-II. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.								
7)	Single phase oil filled capacitive voltage transformer for 400kV transmission line to KPS-II (CTUIL) – Outdoor Equipment (AIS)	Nos.	03																
94	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE- B: BILL OF QUANTITY : Table -1 BOQ for PSS-2	Sr.No-40	23 of 73	<table border="1"> <tr> <td>40)</td> <td>UPS distribution board</td> <td>Lot</td> <td>1</td> </tr> <tr> <td>a.</td> <td>For SAS and other systems of PSS</td> <td>Set</td> <td>2</td> </tr> <tr> <td>b.</td> <td>For CCMS system</td> <td>Set</td> <td>2</td> </tr> </table>	40)	UPS distribution board	Lot	1	a.	For SAS and other systems of PSS	Set	2	b.	For CCMS system	Set	2	<p>As per the referred clause , Pls clarify whether bidder has to consider four number of UPSDB for a) For SAS and other system of PSS.</p> <p>b) For CCMS System</p> <p>OR</p> <p>Bidder can propose two number of UPSDB to meet the present scope of work. Pls clarify .</p>	Bidder shall refer clause no 2.0.0 of "Vol II Sec-2-17-DTS_UPS SYSTEM_PSS 2 " , and clause no. 4.45.0 of "Vol II Sec-2-8-DTS_SS AUTOMATION_PSS 2.pdf " and clause no. 3.9.0 of "Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2 " No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
40)	UPS distribution board	Lot	1																
a.	For SAS and other systems of PSS	Set	2																
b.	For CCMS system	Set	2																

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries												
95	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE- B: BILL OF QUANTITY : Table -1 BOQ for PSS-2	Sr.No-40	23 of 73	<table border="1"> <tr> <td>40)</td> <td>UPS distribution board</td> <td>Lot</td> <td>1</td> </tr> <tr> <td>a.</td> <td>For SAS and other systems of PSS</td> <td>Set</td> <td>2</td> </tr> <tr> <td>b.</td> <td>For CCMS system</td> <td>Set</td> <td>2</td> </tr> </table>	40)	UPS distribution board	Lot	1	a.	For SAS and other systems of PSS	Set	2	b.	For CCMS system	Set	2	As per the referred clause , Kindly provide the outgoing feeder of CCMS system required for UPSDB.	Bidder shall refer clause no 2.0.0 of "Vol II Sec-2-17-DTS_UPS SYSTEM_PSS 2" , and clause no. 4.45.0 of "Vol II Sec-2-8-DTS_SS AUTOMATION_PSS 2.pdf " and clause no. 3.9.0 of "Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2 " No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
40)	UPS distribution board	Lot	1																
a.	For SAS and other systems of PSS	Set	2																
b.	For CCMS system	Set	2																
96	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE- B: BILL OF QUANTITY : Table -1 BOQ for PSS-2	Sr.No-41 to 43	23 of 73	<table border="1"> <tr> <td>41)</td> <td>415V, DG set (min. 300kVA, however final rating shall be as per PSS-2 essential load basis) with acoustic enclosure: Continuous running duty.</td> <td>Set</td> <td>1</td> </tr> <tr> <td>42)</td> <td>Diesel Engine Storage Tank with required civil work.</td> <td>Lot</td> <td>1</td> </tr> <tr> <td>43)</td> <td>Fuel for DG Set, for 7 Days continuous running on Full Load.</td> <td>Lot</td> <td>1</td> </tr> </table>	41)	415V, DG set (min. 300kVA, however final rating shall be as per PSS-2 essential load basis) with acoustic enclosure: Continuous running duty.	Set	1	42)	Diesel Engine Storage Tank with required civil work.	Lot	1	43)	Fuel for DG Set, for 7 Days continuous running on Full Load.	Lot	1	As per the referred clause, We understands that the diesel engine storage tank fuel shall be applicable to meet the DG set for 7 days continuous running on full load.Pls confirm bidder understanding.	Bidder shall refer clause no. 4.31.0 of "Vol II Sec-2-19-DTS_DG SET_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
41)	415V, DG set (min. 300kVA, however final rating shall be as per PSS-2 essential load basis) with acoustic enclosure: Continuous running duty.	Set	1																
42)	Diesel Engine Storage Tank with required civil work.	Lot	1																
43)	Fuel for DG Set, for 7 Days continuous running on Full Load.	Lot	1																
97	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE-F: LIST OF DRAWINGS	Sr.No.-9	73 of 73	<table border="1"> <tr> <td>9)</td> <td>FCE-1721125-EL-DWG-LAY-2100-035</td> <td colspan="2">400 kV Substation Layout-PSS-2 (Preliminary)</td> </tr> </table>	9)	FCE-1721125-EL-DWG-LAY-2100-035	400 kV Substation Layout-PSS-2 (Preliminary)		As per the referred clause , Kindly provide the tender layout.	Bidder shall refer " Vol II FCE-1721125-EL-DWG-LAY-2100-035" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.								
9)	FCE-1721125-EL-DWG-LAY-2100-035	400 kV Substation Layout-PSS-2 (Preliminary)																	
98	Vol II Sec-1-GTS_PSS 2 R1	GALVANIZING AND PAINTING	6.2.0 & 6.3.0	14 of 73	<p>6.2.0 For outdoor equipment, all enclosures shall be factory-painted with epoxy-based paint. Painting procedure shall be suitable for saline environment as per ISO 12944. Corrosivity grade C5-M Grade shall be used for outdoor equipment. Shade of paint shall be RAL 7035. Painting shall be carried out by approved process. Sufficient quantity of touch-up paint shall be furnished for application at site.</p> <p>6.3.0 All indoor equipment, panels and cabinets shall be pre-treated as per IS 6005 before being factory-painted with epoxy based paint shade of paint shall be RAL 7035. Corrosivity grade C4 Grade shall be used for indoor equipment. Painting shall be carried out by approved process. Sufficient quantity of touch-up paint shall be furnished for application at site.</p>	<p>We would like to inform you that, as per Hyosung standard practice we provide RAL 7032</p> <p>Kindly accept the same.</p>	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions												
99	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	Indoor GIS System	2.2.3 (a)	3 of 28	One (01) three phase SF6 insulated circuit breaker complete with spring operated mechanism with Controlled Switching Device (CSD) and electrically gang operated.	<p>We would like to inform you that, As per hyosung type tested model For 400kV GIS we provide Single phase circuit breaker arrangement.</p> <p>Kindly accept the same.</p>	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions												
100	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	DESIGN & CONSTRUCTION REQUIREMENTS FOR 400 kV GIS SYSTEM	7.3.0	15 of 28	Gas enclosures shall be designed to withstand high vacuum by provision of suitable reinforcement(s) at all the required locations. The gas filled enclosures shall conform to relevant pressure vessel code of ASME/CENELEC/DIN for Pressure Vessel.	<p>As material codes are country based codes For presure vesssel code , We follow KS-D6008 with Equivalent EN code (ENAC-42100). Also we will conduct all pressure test for enclosures as per Cl. 6.103-IEC 62271-203:2011.</p> <p>Kindly confirm the same.</p>	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.												
101	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	DESIGN & CONSTRUCTION REQUIREMENTS FOR 400 kV GIS SYSTEM	7.25.0	17 of 28	The average intensity of electromagnetic field shall not be more than 50 micro tesla. The Bidder shall furnish all calculations and documents in support of above during detailed engineering.	<p>We would like to inform you that, the average field intensity shall be as per OEM design.</p> <p>Kindly accept the same.</p>	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions												
102	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	FUSES (if required)	10.1.0	18 of 28	Only HRC fuses shall be used & shall have a rupturing capacity of not less than 80 kA at 220V DC.	<p>We would like to inform you that, we shall provide MCB instead of HRC link type fuses for short circuit protection in LCC for motor of CB. and can be used again which is adavnatgeous over fuses.</p> <p>Kindly accept the same.</p>	Bidder to note that Clause No 10.0.0 of Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2 states that " FUSES (if required) " No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.												
103	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	LIST OF TESTS TO BE CONDUCTED FOR 400 kV GIS PACKAGE	22.1.0 (10)	23 of 28	Electromagnetic compatibility tests (EMC)	<p>We would like to inform you that, Electromagnetic test applicable on low voltage circuits in case of electronic components are used. kindly note our GIS don't have any electronic componenets in LV circuit hence EMC test is not applicable.</p> <p>Kindly accept the same.</p>	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.												

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries
104	Vol II Sec-2-4-DTS_400 kV GIS Equipment_PSS 2	RATING	3.1.0 (i)	1 of 15	Class: E2-M2-C2 as per IEC-62271-100	We would like to inform that We comply to E1 electrical Endurance class for C.B. Kindly accept the same.	Bidder shall refer clause no. 3.1.0 of " Vol II Sec-2-4-DTS_400 kV GIS Equipment_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions
105	Vol II Sec-2-4-DTS_400 kV GIS Equipment_PSS 2	OPERATIONAL REQUIREMENTS	4.8.0	2 of 15	Trip Circuits:Two independent tripping circuits, valves, pressure switches and coils to be provided for connection to different set of relay. The circuits shall operate correctly under all operating conditions upto rated breaking capacity and at all values of supply voltage between 70% to 110% of rated supply voltage. Trip coil supervision to be provided in both open and close position.	We would like to inform you that, as per standards, the range for suitable of operation for Closing coil: 85% to 110% Trip coil shall be 70% to 110%. Kindly confirm the same.	Bidder shall comply with clause no (A) 4.8.0 of "Vol II Sec-2-4-DTS_400kV GIS Equipment-_PSS-2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
106	Vol II Sec-2-4-DTS_400 kV GIS Equipment_PSS 2	RATING	3.1.0 (vii)	5 of 15	Rated capacitive current make and break capacity: 0.50A	We would like to inform you that, the same shall be as per IEC standard. Kindly confirm the same	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions
107	Vol II Sec-2-4-DTS_400 kV GIS Equipment_PSS 2	DESIGN AND CONSTRUCTION FEATURES	4.1.3	12 of 15	The particulars of the various cores may change within reasonable limits as per the requirements of protection relay supplier. The manufacturer is required to have these values confirmed from the purchaser before proceeding with design of the cores. The other characteristics of CTs shall be as given in Technical Parameter of Current Transformer.	We would like to inform you that, kindly provide the detailed CT parameters for the checking CT core height. Any further change in CT parameters leading to stringent ration shall have cost implications. Kindly accept the same.	Bidder shall refer Clause No (E) 3.4.0 of "Vol II Sec-2-4-DTS_400 kV GIS EQUIPMENT_PSS 2" and Note number 15 and 16 of Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001 No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
108	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	DESIGN & CONSTRUCTION REQUIREMENTS FOR 400 kV GIS SYSTEM	7.3.0	15 of 28	Gas enclosures shall be designed to withstand high vacuum by provision of suitable reinforcement(s) at all the required locations. The gas filled enclosures shall conform to relevant pressure vessel code of ASME/CENELEC/DIN for Pressure Vessel.	As material codes are country based codes .For presure vesssel code , We follow KS-D6008 with Equivalent EN code(ENAC-42100). Also we will conduct all pressure test for enclosures as per 6.103-IEC 62271-203:2011. Kindly confirm the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
109	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	LOCAL CONTROL CUBICLE / PANEL	8.3.0	18 of 28	Mimic diagrams shall be provided on local control panels. The mimic strips shall be made of anodized aluminium and shall be screwed onto the panel. Colours of the various voltages of the mimic bus shall be subject to the approval of the Purchaser/comply with relevant IEC standard. The width of mimic strip shall not be less than 5 mm. Discrepancy switches and semaphore indicator shall be provided on the mimic diagram as approved in during detailed engineering.	We would like to inform you that, the same shall be considered as per OEM recommendations. Kindly confirm the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
110	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001					We would like to inform you that, We are consider these CT (CT-C & CT-D) Position, In-between ES and CB of 765/400 KPS BAY. Kindly Accept the same.	Bidder shall comply "Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001" . No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
111	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS2	Indoor GIS System	2.2.4(d)	3 of 28	Five (5), three phase, single pole group operated safety earth switches, complete with manual and motor driven operating mechanism.	We would like to inform you that, there is discrepancy in Customer SLD & Section project. In SLD only 4 earth switch are shown but in section project 5 earth switch are mentioned. We have considered as per SLD. Kindly confirm the same.	No such discrepancy observed. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
112	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	VT shown with separate Disconnecter in line bay The VT shown in the line bay is with separate DS. However, we shall provide the VT with manual isolating link. We request your kind acceptance.	Bidder shall refer "Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001" and clause No 2.2.4 (g) of Sec-2-3-DTS_400 kV GIS SWGR_PSS 2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
113	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	HSES Shown for Busbar earthing Normal work in progress maintenance ES shall be sufficient for the earthing of GIS busbars considering the length of the GIS busbar and the insignificant charges it has to earth. We request your kind acceptance.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries
114	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	VT shown with separate Disconnecter in busbar measurement The VT shown in the BBM bay is with separate DS. However, we shall provide the VT with manual isolating link. We request your kind acceptance.	Bidder shall refer "Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001" and clause No 2.2.1 (b) of Sec-2-3-DTS_400 kV GIS SWGR_PSS 2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
115	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Gas partitioning shown in the busbar Since the number of bays in the 400 kV substation is lesser, the qty. of gas in the busbar is quite less. Thus, We shall provide the busbars without any segregation in between. In our type tested design the busbars and disconnecter shall be in a separate gas compartment, thus the passive busbar arrangement shall be provided for 400 kV GIS. We request you to kindly accept the same. The same is supplied in all our previously executed projects and it is also meeting the service continuity requirements from the specification.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
116	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Ct asked as a separate gas compartment on the outgoing side of the breaker CT being a passive equipment, shall not cause any impact when kept in the same gas compartment as DS on the outgoing side. Also, it doesn't affect service continuity in any manner, We request you kind acceptance in keeping the CT on the outgoing side in the same gas compartment as DS.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
117	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	ES asked as a separate gas compartment In our standard design, the ES and DS are in the same gas compartments. We request you to kindly accept the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
118	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Busbar ES asked as a separate gas compartment In our standard design, the busbar ES and busbar are in the same gas compartments. Busbar being a passive equipment in our design, the same does not impact the healthiness of gas in any manner. We request you to kindly accept the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
119	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	CT ratio missing CT ratio is missing in the SLD. Kindly inform the same.	Bidder shall refer Clause No (E) 3.4.0 of "Vol II Sec-2-4-DTS_400 kV GIS EQUIPMENT_PSS 2" and Note number 15 and 16 of Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001 No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
120	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Double breaker arrangement shown for Line bays Line bays are shown with double breaker arrangement. However, a double busbar single breaker arrangement also provides great amount of redundancy mainting the continuity of service. We request to kindly inform whether double busbar double breaker or double busbar single breaker arrangement is to be considered.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
121	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.2.14	10 of 28	Continuous on-line monitoring and diagnostics systems to monitor gas density, gas pressure, etc., operating parameters such as current, voltage, temperature, etc. complete with sensors and integration of the systems with plant SAS & HPCMS system. Hybrid density monitor shall be provided.	With the help of normal density monitors the various alarms can be available in SCADA. Additionally, to know the exact pressure of any compartment, the GIS shall be equipped with the density monitors with dial. Kindly confirm whether the online gas monitoring is required which includes of display exact pressure values from SCADA.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
122	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.13.0	12 of 28	Recommended spares for 3 years of operation & maintenance.	We as a GIS OEM do not recommend any spares for O&M.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
123	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	DESIGN & CONSTRUCTION REQUIREMENTS FOR 400 kV GIS SYSTEM	7.4.0	15 of 28	Equipment shall be complete with all necessary supports, platforms (Continuous interconnecting all bays), ladders, staircases, catwalks, mechanism cabinets, internal cable raceways etc. for each bay and it shall be of extensible design.	We do not envisage the need of the walkways considering the height of the GIS. However, for any unlikely access to the high points we shall provide one qty A type movable portable ladder. Request your kind acceptance.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries
124	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	LABELS AND DIAGRAM PLATE, RATING PLATES	17.1.0	20 of 28	Every GIS equipment and devices mounted in the cabinet/control panel shall be provided with individual labels with equipment designation/rating. Also, the cabinet/control panel shall be provided on the front with a non-rusting label engraved with the designation of the cabinet/control panel. LCC Label Plate must be bilingual and made of SS-304.	There shall not be a separate rating plate for modules like DS, ES. However, there shall be a central name plate for each bay which shall have all the important parameters from each module. In addition, we shall provide separate rating plate for CT and VT. Request you to kindly accept the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
125	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Routine Tests	22.2.0 (h)	24 of 28	h) Tests on complete assembled feeder bay 1) Dielectric voltage with stand I. Power frequency voltage test II. Lightening Impulse withstand voltage test III. Switching Impulse withstand voltage test IV. Partial discharge test	Lightning impulse and switching impulse ere the type tests and not the routine tests. Thus, the we shall not perform the routine tests for these tests instead already carried out type tests reports shall be submitted.	Bidder shall refer Amendment-1
126	Vol II Sec-1-GTS_PSS 2 R1	SCOPE OF WORK AND SERVICES	2.2.0	5 of 73	...EOT Crane with RF remote control of adequate capacity...	We understand that EOT Crane in 400KV GIS Hall shall be Single Girder Type. Please confirm.	Bidder shall refer clause 2.2.13 (I) of "Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
127	Vol II Sec-2-24-AC and VENT_PSS 2	TECHNICAL REQUIREMENTS OF AIR CONDITIONING SYSTEM	4.6.0	5 of 6	The Split AC units shall be of approved make as per this PSS-2 RFP document (refer GTS, Section-1, Volume-II). All Split AC units shall be of minimum 5.40 or, better ISEER rating.	5 Star Split AC model with 5.4 or better ISEER Rating are not available, we request you to accept 5.0 ISEER Rating instead of 5.4. Please confirm.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
128	Vol II Sec-1-GTS_PSS 2 R1 Vol II Sec-2-24-AC and VENT_PSS 2	SCOPE OF WORK AND SERVICES TECHNICAL REQUIREMENTS OF VENTILATION SYSTEM	2.3.0-4-b 5.5.0	7 of 73 6 of 6	Prefab building for 400kV GIS bays with LCC including EOT crane & ventilation , illumination and other associated works complete in nature. AHU shall be with required number of components for GIS Building / Hall including but not limited to Fresh Air Duct, Damper, mixing section, panel filter, bag filter, preheating coil, cooling coil, reheating coil , Air circulating Fan, Supply air duct for air supply to room with damper arrangement, duct arrangement with outlets and finally returned air outlet with adequate damper arrangement.	There is discrepancy in the refered clause of GTS & Technical Specification of Air conditioning & Ventilation System. As per GTS, Only Ventilation system shall be provided in 400KV GIS Hall, however as per Technical Specification of Air Conditioning & Ventilation System Heating & cooling coil to be provided. We understand that AHU type ventilation system without any Air conditioning like Heating or cooling shall be considered in 400KV GIS Hall. Please confirm	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
129	Vol II Sec-2-24-AC and VENT_PSS 2	General				We understand that, Heating system is not envisaged for this tender, considering the Project Meteorological data. Please confirm.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
130	Vol II Sec-2-24-AC and VENT_PSS 2	TECHNICAL REQUIREMENTS OF AIR CONDITIONING SYSTEM	4.4.0 & 4.5.0	4 of 6 & 5 of 6	"4.4.0 For Centralized AC units, AC Scheduler / AC Controllers shall be provided to control and monitoring of AC units and shall have the following facilities: a) 100% Standby units (one working & one standby) shall be provided for rooms where control system & server equipment are there and 50% standby units shall be provided for all other rooms (office room, conference room etc.). b) Standby units shall come in to operation automatically when the running main unit fails c) Main and standby units shall be changed over periodically. d) Following minimum alarms shall be provided: • Compressor On/OFF condition of each unit • Compressor failure of each unit • Cooling water Pressure and Temperatures • Power Supply failure to AC unit • Power OFF to AC unit • High temperature in room. e) Integration with SCADA for annunciation of alarms / failures/control and configuration 4.5.0 For Decentralized AC units; Wherever decentralized AC units are envisaged like Ductable split type AC units/ High wall type split AC units/ Cassette type split AC units etc. then the system shall be as follows: a) 2x100% Main Units shall be provided and changed over periodically. b) 20% Standby additional units shall be provided and shall come into operation Following alarms shall be provided: • Power Supply failure to AC unit • High temperature in room. d) Integration with SCADA for annunciation of alarms / failures e) AC Scheduler/ AC Controllers shall have facility for site configuration as per operational requirement from local as well as SCADA/CCMS system"	AC Scheduler & Stand-by AC Units is not required in rooms like conference room, office room etc. as Air conditioning System will not run 24X7 in these rooms. Please check & clarify.	Bidder shall refer clause 4.4.0 & 3.0.0 of "Vol II Sec-2-24-AC&VENT_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries																
131	Vol II Sec-1-GTS_PSS 2 R1	SCOPE OF WORK AND SERVICES	2.2.0	5 of 73	<p>The scope of work covers design, engineering, manufacture, assembly and testing at works, packing / dispatch and transportation to site (including transit insurance), storage, erection, testing and commissioning of the following for Pooling Substation-2 (PSS-2 of 1200MW) :</p> <p>.....Fire Protection system for EHV Step-up Power Transformer.....</p> <p>.....Fire protection system.....</p> <table border="1"> <thead> <tr> <th colspan="4">Fire protection system</th> </tr> </thead> <tbody> <tr> <td>87)</td> <td>Fire protection system for overall pooling substation and control building complete with fire alarm panels, repeater panel, detectors, cabling , portable/trolley mounted fire extinguishers, etc.</td> <td>Lot</td> <td>1</td> </tr> <tr> <td>88)</td> <td>Dry chemical powder type fire extinguishers, 6 kg capacity (SS-304 body)...</td> <td>Nos.</td> <td>10</td> </tr> <tr> <td>89)</td> <td>Carbon Dioxide type fire extinguishers, 4.5 kg capacity (SS-304 body)...</td> <td>Nos.</td> <td>10</td> </tr> </tbody> </table>	Fire protection system				87)	Fire protection system for overall pooling substation and control building complete with fire alarm panels, repeater panel, detectors, cabling , portable/trolley mounted fire extinguishers, etc.	Lot	1	88)	Dry chemical powder type fire extinguishers, 6 kg capacity (SS-304 body)...	Nos.	10	89)	Carbon Dioxide type fire extinguishers, 4.5 kg capacity (SS-304 body)...	Nos.	10	<p>As per Tender document & Technical Specification requirement we understand that following Fire Protection System has been considered for PSS.</p> <p>1.NIFPS System for 4 nos. Power Transformers</p> <p>2. Addressable Type Fire Detection System for GIS Buildings & Control Room Building & 33KV PEB</p> <p>3. Portable & Wheel/Trolley Mounted fire Extinguishers as per Annexure-B- Bill of Quantity</p> <p>4. Fire Bucket</p> <p>No water based or any other type of fire protection system shall be considered for any outdoor area/facilities inside Substation boundary. Please confirm</p>	<p>Bidder shall refer clause 3.0.0 of "Vol II Sec-2-25-FPS_PSS 2 and clause No 4.5.0 and 5.25.0 of "Vol II Sec-2-2-DTS_STEP UP PT_PSS 2"</p> <p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>
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132	Vol II Sec-1-GTS_PSS 2 R1	SCOPE OF WORK AND SERVICES	2.2.0	5 of 73	<p>The scope of work covers design, engineering, manufacture, assembly and testing at works, packing / dispatch and transportation to site (including transit insurance), storage, erection, testing and commissioning of the following for Pooling Substation-2 (PSS-2 of 1200MW) :</p> <p>.....Fire protection system.....</p>	<p>We have considered Fire Detection & Alarm System of PSS as Standalone. No interface/interconnection has been considered of Fire Detection & Alarm System of Substation buildings with Solar Plant Control Room/Fire Station which is outside battery limit.</p>	<p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>																
133	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2 & DWG.NO. FCE-1721125-EL-DWG-LAY-2100-035	SCOPE OF SUPPLY & WORK	2.2.0 (e), (f)	1 of 28	<p>e) Space for One (01) Future Transmission Line bay: Double Bus-Double breaker scheme. However, supply, erection and commissioning of gantry is in scope of PSS-2 bidder.</p> <p>F) Space for One (01) Future Bus Reactor Bay: Double Bus-Double breaker scheme.</p>	<p>For our own make, for future bays, there will not be any adaptor panel to be considered in the layout. Please confirm.</p>	<p>Bidder shall refer Amendment-1</p> <p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>																
134	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.2.1 (a)	2 of 28	<p>Six (6) individual passive bus bar enclosures running the length of the switchgear to interconnect each of the circuit breaker bay modules in double main bus system.</p>	<p>Bus bars are active in our 400kV type tested design. Please accept the same</p>	<p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>																
135	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.2.2, 2.2.3 & 2.2.4	3 of 28	<p>2.2.2 UHF sensors in GIS for PD (Partial Discharge) detection: Adequate number of UHF sensors shall be provided in the offered GIS (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.....)</p> <p>2.2.3 ONE POWER TRANSFORMER BAY (FOR DOUBLE BUS SINGLE BREAKER SCHEME) WILL COMPRISE OF:.....</p> <p>2.2.4 ONE 400 KV TRANSMISSION LINE BAY (FOR DOUBLE BUS DOUBLE BREAKER SCHEME) WILL COMPRISE OF:.....</p>	<p>Offered GIS is single phase encapsulated and hence no three phase CB, DS and ES.</p> <p>A) We consider three nos. single phase CB with individual operating mechanism per bay.</p> <p>C)For DS and ES, three nos. single pole group operated switchshall be considered..</p>	<p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>																
136	Vol II Sec-2-4-DTS_400 kV GIS EQUIPMENT_PSS 2 & Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001	DESIGN AND CONSTRUCTION FEATURES	4.1.0	12 of 15	<p>Current Transformers...</p>	<p>Request for CT parameters feederwise.</p>	<p>Bidder shall refer Clause No (E) 3.4.0 of "Vol II Sec-2-4-DTS_400 kV GIS EQUIPMENT_PSS 2" and Note number 15 and 16 of Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001</p> <p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>																
137	Vol II Sec-2-4-DTS_400 kV GIS EQUIPMENT_PSS 2	DESIGN AND CONSTRUCTION FEATURES	4.1.4	12 of 15	<p>Where multi-ratio current transformers are required the various ratios shall be obtained by changing the effective number of turns on the secondary winding.</p>	<p>For multi-ratio CTs, various ratios can be obtained as per taps provided.</p>	<p>Bidder shall refer clause No 4.1.4 of Vol II Sec-2-4-DTS_400 kV GIS EQUIPMENT_PSS 2</p> <p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>																
138	Vol II Sec-2-4-DTS_400 kV GIS EQUIPMENT_PSS 2	DESIGN AND CONSTRUCTION FEATURES	4.1.12	13 of 15	<p>The rated extended primary current shall be 150% at all ratios.</p>	<p>Extended primary current is limited to maximum GIS rated current.</p>	<p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>																
139	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001 & Vol II FCE-1721125-EL-DWG-LAY-2100-035				<p>SLD & layout of PSS-2</p>	<p>Gas compartmentalization of GIS shall be as per type tested design and complying to Service Continuity requirements as per IEC 62271-203 Annexure F.</p>	<p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>																

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140	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE-E: VENDOR LIST	46	57 of 73	<table border="1"> <tr> <td>46</td> <td>HT Panels and HT Breaker</td> <td>A</td> <td> a) ABB b) SIEMENS c) Schneider d) GE e) L&T </td> </tr> </table>	46	HT Panels and HT Breaker	A	a) ABB b) SIEMENS c) Schneider d) GE e) L&T	Please confirm whether HT Panels can be procured from System inhouse of ABB subject to meeting the GIPCL Technical specification	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
46	HT Panels and HT Breaker	A	a) ABB b) SIEMENS c) Schneider d) GE e) L&T								
141	Vol II Sec-2-12-DTS_HT SWGR_PSS 2	FEEDER LIST	10.0.0	24 of 26	<table border="1"> <tr> <td>1</td> <td>32X01</td> <td>Incomer for 33 kV LV from 400/33/33kV Transformer with line PT</td> <td>3150 A</td> </tr> </table>	1	32X01	Incomer for 33 kV LV from 400/33/33kV Transformer with line PT	3150 A	Please confirm whether 33kV, 2500A VCB shall be accepted which will give 2950A in panel current with Forced cooling.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
1	32X01	Incomer for 33 kV LV from 400/33/33kV Transformer with line PT	3150 A								
142	Vol II Sec-2-2-DTS_STEP UP PT_PSS 2 R1	Special Tests	6.3.2	44 of 63	Dynamic Short circuit tests shall be as per CEA requirements. Dynamic short circuit withstand test shall be conducted on one unit of each type and rating of transformers, to validate the design and quality, unless such test has been successfully conducted as per IS 2026 part-5 within last ten years on transformer of similar design. Criteria for similar design shall be as per Annexure-J of Central Electricity Authority's "Standard Specifications and Technical Parameters for Transformers and Reactors (66kV and above)".	We would like to inform you that the requirement of 340MVA, 400/33-33kV 3-ph 3-Winding Transformers is very High Capacity and Non Standard Power Transformer. We request you to kindly incorporate the requirement as "Bidder to provide the only calculations to prove the ability to withstand the Thermal and Dynamic effects of SC calculation for the offered Transformers"	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.				
143	Vol II Sec-2-2-DTS_STEP UP PT_PSS 2 R1	TECHNICAL PARAMETERS	10.0.0 (1)	58 of 63	Point No. 1 : Rated Capacity HV (MVA) : 340 with continuous thermal rating 110% LV1 (MVA) : 170 with continuous thermal rating 110% LV2 (MVA) : 170 with continuous thermal rating 110%	We would like to propose the Rated Capacity shall be as below HV (MVA) : 340 MVA LV1 (MVA) : 170 MVA LV2 (MVA) : 170 MVA	Bidder shall refer clause 10.0.0 of "Vol II Sec-2-2-DTS_STEP UP PT_PSS 2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.				
144	Vol II Sec-2-2-DTS_STEP UP PT_PSS 2 R1	TECHNICAL PARAMETERS	10.0.0 (9)	58 of 63	Point No. 9 : Type of Cooling : ONAN / ONAF / ODAF ONAN / ONAF / ODAF : 60 % /80 % /100% : 204 / 272 / 340MVA	Please re- confirm the requirement of the Transformer are as below : Point No. 9 : Type of Cooling : ONAN / ONAF ONAN / ONAF : 80 % /100% : 272 / 340MVA	Bidder shall refer clause 10.0.0 of "Vol II Sec-2-2-DTS_STEP UP PT_PSS 2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.				
145	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	VT shown with separate Disconnecter in line bay The VT shown in the line bay is with separate DS. However, we shall provide the VT with manual isolating link. We request your kind acceptance.	Bidder shall refer "Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001" and clause No 2.2.4 (g) of Sec-2-3-DTS_400 kV GIS SWGR_PSS 2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.				
146	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	HSES Shown for Busbar earthing Normal work in progress maintenance ES shall be sufficient for the earthing of GIS busbars considering the length of the GIS busbar and the insignificant charges it has to earth. We request your kind acceptance.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.				
147	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	VT shown with separate Disconnecter in busbar measurement The VT shown in the BBM bay is with separate DS. However, we shall provide the VT with manual isolating link. We request your kind acceptance.	Bidder shall refer "Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001" and clause No 2.2.1 (b) of Sec-2-3-DTS_400 kV GIS SWGR_PSS 2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.				
148	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Gas partitioning shown in the busbar Since the number of bays in the 400 kV substation is lesser, the qty. of gas in the busbar is quite less. Thus, We shall provide the busbars without any segregation in between. In our type tested design the busbars and disconnecter shall be in a separate gas compartment, thus the passive busbar arrangement shall be provided for 400 kV GIS. We request you to kindly accept the same. The same is supplied in all our previously executed projects and it is also meeting the service continuity requirements from the specification.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.				

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149	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Ct asked as a separate gas compartment on the outgoing side of the breaker CT being a passive equipment, shall not cause any impact when kept in the same gas compartment as DS on the outgoing side. Also, it doesn't affect service continuity in any manner, We request you kind acceptance in keeping the CT on the outgoing side in the same gas compartment as DS.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
150	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	ES asked as a separate gas compartment In our standard design, the ES and DS are in the same gas compartments. We request you to kindly accept the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
151	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Busbar ES asked as a separate gas compartment In our standard design, the busbar ES and busbar are in the same gas compartments. Busbar being a passive equipment in our design, the same does not impact the healthiness of gas in any manner. We request you to kindly accept the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
152	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	CT ratio missing CT ratio is missing in the SLD. Kindly inform the same.	Bidder shall refer Clause No (E) 3.4.0 of "Vol II Sec-2-4-DTS_400 kV GIS EQUIPMENT_PSS 2" and Note number 15 and 16 of Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001 No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
153	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 KV Substation Single Line Diagram PSS-2	Double breaker arrangement shown for Line bays Line bays are shown with double breaker arrangement. However, a double busbar single breaker arrangement also provides great amount of redundancy mainting the continuity of service. We request to kindly inform whether double busbar double breaker or double busbar single breaker arrangement is to be considered.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
154	Vol II Sec-1-GTS_PSS 2 R1	TRAINING	12.0.0	17 of 73	TRAINING Bidder shall be responsible for providing training to Owner's personnel on offered systems at Bidder's Works/Bidder's Associate's Work/Site. It shall include training operators in the use of system, in operation and maintenance of the equipment to the extent that the Owner's personnel can make maintenance of the systems and shall be as per Clause no. 2.9.0 of this General Technical Specification (GTS). The bidder shall provide a training of suitable duration on all supplied materials especially GIS, CSD, Transformer, SAS, CRP, CCMS, PLCC, FOTE, SDH, Battery Chargers, UPS, PMU, equipment, converters, servers, special tools, testing kits etc. for Customer/Client's personnel to provide working knowledge of the equipment, operation and diagnostic tools, supervision and monitoring using local craft terminal. The training may be provided by the Contractor or its sub-vendor at the site itself, preferably during installation, and will include training materials and presentation equipment. No separate charges for training shall be payable to the Contractor. Specialized training shall be provided to the persons manning the centralized monitoring center and to the field support staff to ensure quick fault detection and restoration of the communication system. Training shall be provided to the maintenance persons on all communication equipment for its operation and maintenance.		Bidder shall refer Clause no.12.0.0 of "Vol II Sec-1-GTS_PSS 2 R1". No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
155	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.2.1 (d)	2 of 28	The Surge arrestors for main buses shall be of GIS type only (applicable as per Insulation co-ordination study during detail engineering).		Bidder shall refer following Clauses of Tender A. Clause no 2.2.0 of "Vol II Sec-1-GTS_PSS2" B. Clause no 2.2.1 d) of "Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
156	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.2.11	6 of 28	On-line continuous Partial Discharge Monitoring (PDM)		Bidder shall refer clause 2.2.11 of "Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions
157	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.2.13	8 of 28	Electric Overhead Travelling (EOT) Crane:		Bidder shall refer clause 2.2.13 of "Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries
158	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.2.14	10 of 28	Continuous on-line monitoring and diagnostics systems to monitor gas density, gas pressure, etc., operating parameters such as current, voltage, temperature, etc. complete with sensors and integration of the systems with plant SAS & HPCMS system. Hybrid density monitor shall be provided.	With the help of normal density monitors the various alarms can be available in SCADA. Additionally, to know the exact pressure of any compartment, the GIS shall be equipped with the density monitors with dial. Kindly confirm whether the online gas monitoring is required which includes of display exact pressure values from SCADA.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
159	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.8.0	11 of 28	Phasor Measurement Unit (PMU) shall be provided at for transmission line, all transformers and common PMU for Bus coupler & Bus EMVT's with all necessary arrangements. For detail specification of PMU, bidder shall refer the respective detail technical specification (Section-2.28, Volume-II). These PMUs shall be connected with the FOTE at Substation for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. However, configuration work in existing PDC at RLDC for new PMU integration is not in scope of Bidder (shall be done by respective RLDC), however all the necessary support in this regard shall be ensured by Bidder.		Bidder shall refer clause 2.0.0 of "Vol II Sec-2-28-DTS_PMU_PSS 2". No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
160	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Indoor GIS System	2.13.0	12 of 28	Recommended spares for 3 years of operation & maintenance.	We as a GIS OEM do not recommend any spares for O&M.	Bidder to note that this is an EPC contract, not equipment supply contract. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
161	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	DESIGN & CONSTRUCTION REQUIREMENTS FOR 400 kV GIS SYSTEM	7.4.0	15 of 28	Equipment shall be complete with all necessary supports, platforms (Continuous interconnecting all bays), ladders, staircases, catwalks, mechanism cabinets, internal cable raceways etc. for each bay and it shall be of extensible design.	We do not envisage the need of the walkways considering the height of the GIS. However, for any unlikely access to the high points we shall provide one qty A type movable portable ladder. Request your kind acceptance.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
162	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	LABELS AND DIAGRAM PLATE, RATING PLATES	17.1.0	20 of 28	Every GIS equipment and devices mounted in the cabinet/control panel shall be provided with individual labels with equipment designation/rating. Also, the cabinet/control panel shall be provided on the front with a non-rusting label engraved with the designation of the cabinet/control panel. LCC Label Plate must be bilingual and made of SS-304.	There shall not be a separate rating plate for modules like DS, ES. However, there shall be a central name plate for each bay which shall have all the important parameters from each module. In addition, we shall provide separate rating plate for CT and VT. Request you to kindly accept the same.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
163	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	EARTHING	18.0.0	21 of 28	EARTHING.....		Bidder shall refer" Sec-2-20-Earthing_PSS 2". No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
164	Vol II Sec-2-3-DTS_400 kV GIS SWGR_PSS 2	Routine Tests	22.2.0 (h)	24 of 28	Tests on complete assembled feeder bay 1) Dielectric voltage with stand I. Power frequency voltage test II. Lightening Impulse withstand voltage test III. Switching Impulse withstand voltage test IV. Partial discharge test	Lightning impulse and switching impulse ere the type tests and not the routine tests. Thus, the we shall not perform the routine tests for these tests instead already carried out type tests reports shall be submitted.	Bidder shall refer to Amendment-1.
165	General					400kV,3150A Outdoor Bus duct (along with support structure and associated hardware and anchor bolts) : 525 m We understand that the bus duct length of 525 m is single phase bus duct length. Kindly confirm	It shall be decided during detailed engineering. Bidder shall refer "Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
166	Vol I Sec 2 ITB_PSS_2_R2	PRE-QUALIFYING REQUIREMENTS (PQRS)/ ELIGIBILITY CONDITIONS	2.2.1.3	6 of 14	In case, the bidder is not a GIS manufacturer, he shall also be considered provided: i) The bidder must have erected and commissioned at least Six (06) nos. GIS circuit breaker bays (*) of 400kV or above voltage class cumulatively in two (02) GIS substation during last seven (07) years and these bays must be in satisfactory operation## for at least one (01) year as on the date of bid submission mentioned above. ii) The GIS must be offered from Indian manufacturer, who meets the requirement (except erection, testing and commissioning but including erection supervision) mentioned at 2.2.1, ROUTE-1 or ROUTE-2 above. iii) A legally enforceable undertaking (jointly with the GIS Manufacturer) (as per enclosed format in 27(B) of Appendix-27, Section-VII, Volume-I of bidding document) to guarantee quality, timely supply, performance and warranty obligations as specified for the equipment(s) is submitted along with the bid stating that EPC Contractor/Bidder shall furnish performance guarantee for an amount of two (2) % of the total contract price. This performance guarantee shall be in addition to the Contract Performance security to be submitted by the Bidder. Note: (##) Satisfactory operation – means certificate issued by the Customer/Client certifying the operation without any adverse remark. (*) For the purpose of qualification requirement, one no. of circuit breaker bay shall be considered as a bay used for controlling a line or a transformer or a reactor or a bus section or a bus coupler and comprising of at least one circuit breaker, one disconnecter and three nos. of single phase CTs / Bushing CTs.	We request you to kindly accept the MAF (Indian OEM) instead of JDU for GIS equipments and omit the performance guarantee requirement for an amount of two (2) % of the total contract price.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries
167	Vol II Sec-1-GTS_PSS 2 R1	TERMINAL POINTS	4.0.0 (d)	10 of 73	All cables from 415V Park Infrastructure Distribution Board to Power Distribution Board / ACDB for buildings other than GIS building and Substation Control Building shall not be laid by PSS package vendor. Thus, outgoing terminal for those feeders at 415V Park Infrastructure Distribution Board shall be terminal point for PSS-2 vendor.	We understand that number and rating of outgoing feeders for Park infrastructure DB and 415V Station service board shall be as per Vol II Sec-2-15-DTS_LT SWITCHBOARDS_PSS 2, CI-8.0.0. Any additional feeders required by owner for PIDB during detail engineering can be provided with suitable implications. Please confirm.	Bidder shall refer clause 8.0.0 of " Vol II Sec-2-15-DTS_LT SWITCHBOARDS_PSS 2" and Please Refer Amendment-1 No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
168	Vol I Sec 8 Price Schedule_PSS_2_R2	SCHEDULE – 4 PROFORMA FOR DETAILED BREAK-UP OF PRICE FOR SUPPLY INCLUDING TAXES OF EQUIPMENT/SYSTEMS- PSS-2	Sl. No. 1 (b)	6 of 13	400 kV GIS Bays for PSS-2 as per Tender Document	As per Vol-II, Section 2.3, clause 2.2.8, it is mentioned as " Bus duct shall be single phase enclosed. GIB from outside the GIS Hall wall including support structure to SF6/Air Bushing for interconnection to substation equipment of Line/ Transformer Bays shall be considered for mode of measurement. Inner side GIB is to be considered as part of respective Transformer / Line Bay." However, as per referred clause, indoor and outdoor GIB quantities included with the GIS modules. Hence, we propose client to give the separate line item for outdoor GIB for 400kV GIS. We request GIPCL to check & propose suitable amendments in this regard.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
169	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE- B: BILL OF QUANTITY	Sl. No. 39	23 of 73	Table -1 BOQ for PSS-2 Sl. 39) 230V AC UPS system: Set : 2	As per section 2.17, clause 2.1.1, supply of 230V, Two numbers 230V, 50Hz, AC UPS DB with Tie for pooling substation-2 are to be supplied. Further, as per Annexure B, Sl No. 39, total 2 sets of 230V AC UPS system are mentioned. However, as per Annexure B, Sl No. 83.o, Power supply (UPS with battery backup) as required for efficient operation of the system is provided under CCMS. We understand that total 2 sets of UPS system is to be considered for PSS-2, one for SAS and other systems and one for CCMS and same shall be supplied in line with the Drg. No. FCE-1721125-EL-DWG-SLD-2100-010 Rev.02. Please confirm whether Bidder's understanding is in order.	Bidder shall refer clause no 2.0.0 of "Vol II Sec-2-17-DTS_UPS SYSTEM_PSS 2 " , and clause no. 4.45.0 of "Vol II Sec-2-8-DTS_SS AUTOMATION_PSS 2.pdf " and clause no. 3.9.0 of "Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2 " No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
170	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE- B: BILL OF QUANTITY	Sl. No. 80	24 of 73	Table -1 BOQ for PSS-2 Sl. No. 80) 33 kV Switchgear Boards (Please refer DTS for configuration & number of panels of each board): Nos.: 8	We understand that bidder to consider the 33kV feeders as per Drg. No. FCE-1721125-EL-DWG-SLD-2100-041,Rev.00 Any change in the same shall have price and time implications, Please confirm whether Bidder's understanding is in order.	Bidder shall refer clause 10.0.0 "Vol II Sec-2-12-DTS_HT SWIGR_PSS 2.pdf" and "FCE-1721125-EL-DWG-SLD-2100-041" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
171	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE- B: BILL OF QUANTITY	Sl. No. 112	26 of 73	Table -1 BOQ for PSS-2 Sl. No. 112) AMC support for all the Software's: Lot:1	As supply of any engineering software is not under present scope, we understand that referred line item shall be for the software supplied for SAS and CCMS only. Please confirm whether Bidder's understanding is in order.	Softwares requires for operation and maintenance of all the equipments like CCTV, CCMS, SAS, FOTE, PLCC etc.. is in the scope of Bidder. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
172	Vol II Sec-1-GTS_PSS 2 R1 Vol II Sec-2-29-DTS_PQM_PSS 2	SCOPE OF WORK AND SERVICES SCOPE OF WORK	2.2.0 (i) 2.1.0 (c)	6 of 73 1 of 7	Centralized Control and Monitoring System (CCMS) including the following-a)... i) Interconnection with PQM at GIPCL end and CTUIL / ISTS Substation end c. For 33 kV system PQM shall be supplied for SPD/WPD Feeders and spare feeders.	As per Drawing no. DWG No. FCE-1721125-EL-DWG-SLD- 2100-041,Rev.00, we understand that supply and integration of PQM meter for SPD/WPD for both the end is not in bidder's scope. Please confirm whether Bidder's understanding is in order.	Bidder shall refer "Vol II Sec-1-GTS_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
173	Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2	SYSTEM DESCRIPTION	2.4.0	12-14 of 73	Minimum Signal exchange for the CCMS shall include the following: These are minimum signal, during detailed engineering extra signal shall be added by Owner if required. Bidder shall comply by adding hardware and software if required at no extra cost to Owner. Signal requirement of RLDC / CTUIL to be compiled....	As given signal list of SPP/WPP which to be considered in CCMS is very generic, request you to kindly provide the detailed DI/DO list for all SPP/WPP signals which are to be considered for CCMS monitoring. Further, Request client to provide the number of solar and wind parks connected with PSS-2 pooling station.	It shall be decided during Detailed Engineering. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions
174	Vol II FCE-1721125-EL-DWG-400kVSLD-2100-001				400 kV Substation Single Line Diagram PSS-2	Kindly provide the line CT parameters of existing CTUIL KPS-II S/s as same needs to be considered for GIPCL 400kV GIS line bay.	Required coordination is in bidders scope. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

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175	Vol II FCE-1721125-EL-DWG-33kVSLD-2100-041				33 kV Indoor Switchgear(VCB) Single Line Diagram PSS-2	Request you to kindly provide the route length and laying method of 33kV cable from SPP/WPP to GIPCL 400kV PSS-2.	Bidder shall refer Amendment-1.
176	Vol II Sec-2-2-DTS_STEP UP PT_PSS 2 R1	Special Tests	6.3.2	44 of 63	Dynamic Short circuit tests shall be as per CEA requirements. Dynamic short circuit withstand test shall be conducted on one unit of each type and rating of transformers, to validate the design and quality, unless such test has been successfully conducted as per IS 2026 part-5 within last ten years on transformer of similar design. Criteria for similar design shall be as per Annexure-J of Central Electricity Authority's "Standard Specifications and Technical Parameters for Transformers and Reactors (66kV and above)".	As per Annexure-J of CEA specification, the Absorbed power at short circuit (rated power/per unit short-circuit impedance) shall be between 70% and 130% of that relating to the reference transformer. However, the range acceptable as per IS 2026-5, Annexure-B is 30% to 130%. Hence we request GIPCL to follow the similarity design criteria as per Annexure-B of IS 2026-5 instead of Annexure-J of CEA. Please check & issue suitable amendments.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
177	Vol II Sec-2-2-DTS_STEP UP PT_PSS 2 R1	Special Tests	6.3.2	44 of 63	Dynamic Short circuit tests shall be as per CEA requirements. Dynamic short circuit withstand test shall be conducted on one unit of each type and rating of transformers, to validate the design and quality, unless such test has been successfully conducted as per IS 2026 part-5 within last ten years on transformer of similar design. Criteria for similar design shall be as per Annexure-J of Central Electricity Authority's "Standard Specifications and Technical Parameters for Transformers and Reactors (66kV and above)".	As per the referred clause, we understand that the Dynamic short circuit withstand capability test report of similar rated transformers in comparison to the offered transformer based on the similarity criteria as defined in IS 2026 : Part 5 need to be considered. We request client to accept the theoretical evaluation of the ability of transformer to withstand dynamic effects of Short circuit (as per IS 2026-5) either - by comparison with a reference transformer which has passed the short-circuit test successfully (or) - by check against the manufacturer's design rules for short-circuit strength. Please confirm.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
178	Vol II Sec-2-8-DTS_SS AUTOMATION_PSS 2	SCOPE OF WORK	2.1.17	3 of 59	All equipment under this SAS shall work with redundant 220V DC power supply and redundant communication system with hot standby. Failure of communication link or power supply shall be alarmed and event should be generated in HPCMS / SAS HMI as applicable.	Please furnish the requirement of which communication protocol - PRP (or) HSR (or) RSTP is to be followed for SAS at GIPCL 400kV PSS-2.	It shall be decided during Detailed Engineering. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
179	Vol II Sec-1-GTS_PSS 2 R1	SCOPE OF WORK AND SERVICES	2.1.0	4 of 73	The scope of this specification shall include 400 kV pooling substation for power evacuation to proposed Khavda PS-II (CTUIL / ISTS), 400/33/33 kV transformers to step up power from Solar/Wind plants, 33 kV pooling switchgear for pooling power received from solar/wind plants, 33 kV busduct for connection between step-up power transformer and switchgear, LV service transformers to derive 415 V supply, DG set, Battery & chargers to provide DC supply, UPS system to provide UPS supply, Control & relay panels, Substation automation system, Centralized Control and Monitoring System (CCMS), PLCC and FOTE system for communication between PSS-2 and CTUIL KPS-2 (Supply and commissioning at PSS-2 end splicing of OPGW with approach cable in joint box (supply in bidders scope) and interface support to establishing communication between PSS-2 and CTUIL at CTUIL KPS-2 end).Power & control cables, , Optical Fiber cables, Signals cables, Cable trays, Lighting system, Earthing & lightning protection, Fire Protection System (FPS), CCTV for installation within pooling substation boundary, Switchyard control building, GIS Building, Substation structures, foundation & civil works for all the equipment & structures covered etc. as detailed below.	We do not envisage any following equipments for communication for remote end switchyard: 1. PLCC 2. FOTE 3. CVT 4. WT Please confirm.	Bidder shall refer "Vol II Sec-1-GTS_PSS 2 " No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
180	Vol II Sec-2-10-DTS_PLCC_PSS 2	Network Management System (NMS)	12.0.0	37 of 47	The network management system (NMS) shall have facilities to supervise, monitor, control and configure each equipment and the whole network. It shall have capabilities of fault, configuration, performance and security management. It shall provide various graphical views to the network such as, logical network structure, and hierarchical view. The network management system shall allow to define different user profiles...	In the referred clause of technical specification, Network management system (NMS) is indicated. NMS is generally required for managing a large network & shall be part of LDC. Hence, for managing the network under the scope of this package a craft terminal as mentioned in the BPS is sufficient. Hence, we do not envisage any NMS under this contract. Please confirm.	Bidder shall refer "Vol II Sec-2-10-DTS_PLCC_PSS 2 " No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
181	Vol II Sec-2-10-DTS_PLCC_PSS 2	Table of compliance	13.0.0 (v)	37 of 47	Transmission Capacity Gbit/s : 1/10 Gbit/s MPLS-TP Gbit/s: STM-16: 2.5 Mbit/s: STM-4: 622 Mbit/s: STM-1: 155	Client is requested to confirm the required transmission capacity among the capacities mentioned in the referred clause for FOTE communication.	Bidder shall refer clause no. 1.0.0 Part-II (FIBER OPTIC TERMINAL EQUIPMENT (FOTE)) of "Vol II Sec-2-10-DTS_PLCC_PSS 2 " No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
182	Vol II Sec-2-1-DTS_DESIGN ASPECTS_PSS 2	LAYOUT ASPECTS	4.5.0	8 of 13	Pooling Substation Control Building room details and clearances are shown in the attached tender Drawings (refer to 400kV GIS Layout PSS-2, Drawing No: FEC-1721125-EL-DWG-LAY- 2100-035).	The referred drawing, 400kV GIS layout is not received along with the tender documents. Kindly provide the same.	Bidder shall refer " Vol II FCE-1721125-EL-DWG-LAY-2100-035" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

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183	Vol II Sec-2-16-DTS_DC SYSTEM_PSS 2	TECHNICAL REQUIREMENTS	4.1.4	2 of 11	220V DC system shall be provided to feed the following. ii) Control & protection iii) Alarm & indication iv) Circuit breaker closing/tripping v) UPS / UPS's	As per Section 2.17, clause 2.1.3, The input power supply of 220 VDC to each UPS shall be from separate battery bank is mentioned. However, as per referred clause, 220V DC system shall be sized including the consideration of UPS loads. Kindly confirm the actual requirement.	Bidder shall refer Clause no.2.1.3 of Sec-2-17-DTS_UPS SYSTEM_PSS 2. and Clause no. 2.0.0 and 4.1.4 of Vol II Sec-2-16-DTS_DC SYSTEM_PSS 2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
184	Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2	GENERAL REQUIREMENTS	1.40.0 (n)	8 of 73	Bidder shall perform a cyber-Vulnerability Assessment of each electronic Access Points to the Electronic Security Perimeter(s). Bidder shall ensure that all vulnerabilities identified as a result of cyber Vulnerability Assessment shall be closed. If a Cyber Asset is found vulnerable to any exploits or upon any patch updates or major configuration changes, then further Penetration Testing may be carried out offline or in a suitably configured laboratory test-bed to determine other vulnerabilities that may have not been identified so far. Bidder shall submit the report to Owner.	Please clarify if the cyber security assessment to be done by 3rd party auditors.	Bidder shall comply applicable CEA Regulation as per 3.10.0 "Vol II Sec-2-1-DTS_DESIGN ASPECTS_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
185	Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2	GENERAL REQUIREMENTS	1.40.0 (w)	9 of 73	FAT, SAT must include comprehensive cyber security tests of the communicable component/equipment/system to be delivered at site. Bidder shall ensure that the essential cyber security tests are carried out successfully during FAT, SAT. The equipment/System besides for functionality shall also be tested in the factory for vulnerabilities, design flaws, parts being counterfeit or tainted, so as to minimize problems during on-site testing and installation.	Please clarify if the cyber security assessment to be done by 3rd party auditors.	Bidder shall comply applicable CEA Regulation as per 3.10.0 "Vol II Sec-2-1-DTS_DESIGN ASPECTS_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
186	Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2	SYSTEM DESCRIPTION	2.3.1	10 of 73	The Centralized Data Server shall integrate with other control systems provided in the Hybrid park such as SCADA of SPPs / WPPs, SAS of pooling substations, PPC, Weather monitoring station, Fire alarm and protection system (for PSS, Admin building, Guest House, Canteen & Security complex buildings), UPS & Battery Charger (for PSS, Admin building, Guest House, Canteen & Security complex buildings) and CCTV surveillance system (for PSS, Admin building, Guest House, Canteen, Security complex buildings and all roads & gates), Desalination Plant, Water Distribution System, Green Hydrogen plant and establishing & data transfer to CTUIL/PGCIL/ RLDC/SLDC/Regulatory Authorities	Please provide the interface details for Fire alarm and protection system (for PSS, Admin building, Guest House, Canteen & Security complex buildings), UPS & Battery Charger (for PSS, Admin building, Guest House, Canteen & Security complex buildings) and CCTV surveillance system (for PSS, Admin building, Guest House, Canteen, Security complex buildings and all roads & gates), Desalination Plant, Water Distribution System, Green Hydrogen plant.	It shall be decided during Detailed Engineering. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
187	Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2	SYSTEM DESCRIPTION	2.3.1 2.3.5 2.6.0	11 of 73 14 of 73	.....Desalination Plant, Water Distribution System, Green Hydrogen plant and establishing & data transfer to CTUIL/PGCIL/ RLDC/SLDC/Regulatory Authorities The CCMS shall interface with State Load Dispatch Center (SLDC) and Regional Load Dispatch Center (RLDC) for data transfer related to the park generation schedule & actual..... The communication link between CCMS and RLDC / SLDC shall be through PLCC and FOTEOPGW connectivity. The communication protocol shall be through IEC 101/ IEC 104....	Please confirm if the data transfer is only through IEC101/IEC104 (or) ICCP is also an interface option.	Bidder shall refer " Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
188	Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2	SYSTEM DESCRIPTION	2.3.8	12 of 73	Revenue and billing system shall be carried out at Hybrid Power Park enterprise system.	We understand the revenue and billing system are part of ERP system and hence the same is not in the bidder's scope. Please confirm.	Bidder shall refer " Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
189	Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2	SYSTEM DESCRIPTION Main SCADA	2.5.0 3.1.5	14 of 73 15 of 73	The communication protocol between CCMS and Field SCADA shall be on OPC or RDBMS shadowing and shall be firmed up during detail engineering. There shall not be any limitation on the protocol implementation. The communication link between CCMS and Field SCADA shall be through Fiber Optic cable. The Main SCADA shall collect and accumulate the data from Solar/Wind Plots through Field SCADA. The Solar/Wind Plots shall be controlled from the CCMS OWS for MW and MVAr dispatch. The data exchange between the Main SCADA and Field SCADA shall be through OPC communication Protocol or through Database shadowing, both utilizing the TCP/IP network.	The architecture diagram also mentions IEC 104 as an option to communicate CCMS with field/plant SCADA. Please confirm if we can use IEC 104.	Bidder shall refer " Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2" and " DWG NO FCE-1721125-CI-DWG-CMS-4100-022" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
190	Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2	Main SCADA	3.1.6	15 of 73	The Main SCADA shall integrate the SAS for the Control & Monitoring of the Substations. The SAS shall be part of the Main SCADA and can carry out data exchange on IEC 103 / DNP / IEC 61850 /Modbus (TCP/IP or RTU) protocol. CCMS OWS shall have provisions to Control and monitor the Substation.	The mentioned protocols are substation level protocol for sub-device communication within the substations. The SAS systems are capable of communicating on protocols for control center which is IEC 104. Hence IEC 104 shall be mentioned as the protocol for communication between Main SCADA and SAS. Please confirm.	Bidder shall refer " Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries
191	Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2	Main SCADA	3.1.10	15 of 73	The SCADA shall communicate with the RLDC/SLDC on IEC 104. The Data exchange shall be Real Time and also Report. The Report like the daily/Monthly/Yearly Generation and the daily/weekly/monthly Schedules shall be sent cyclically.	Please confirm if the data transfer is only through IEC101/IEC104 (or) ICCP is also an interface option. Also the mode of interface for reports shall be through FTP. Please confirm.	Bidder shall refer " Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
192	Vol II Sec-2-27-DTS_CCMS INTEGRATION_PSS 2	GENERAL REQUIREMENTS	1.29.0	6 of 73	The communication system shall be capable to provide integration with supervisory control and data acquisition system, wide area measurement system, video conferencing system, automatic meter reading, electronic private automatic branch exchange, voice over internet protocol and tele-protection. The protections for transmission line shall have hundred percent back up communication channels. Two channels for tele- protection in addition to one channel for speech plus data for each direction. The Tie line protection shall also be accommodated with 100% backup in the design.	The communication system shall be capable to provide integration with supervisory control and data acquisition system, wide area measurement system, video conferencing system, automatic meter reading, electronic private automatic branch exchange, voice over internet protocol and tele-protection. SAS system will be independent and no integration with Video conferencing / other system mentioned is envisaged. Please confirm	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
193	Vol I Sec 4 GCC_PSS_2_R2	CONTRACT DOCUMENTS	2.4	6 of 55	.....In case of any conflicts / contradiction among various clauses / Parts / Appendix / Annexure/chapters / appendices / tender drawings of bid documents, the most stringent requirement shall govern; decision and / or interpretation of the Owner shall always be final & binding on the Bidder/Successful bidder. No extra claims shall be allowed on this account	In case of contradiction between Individual equipment technical-specification, General Technical specification, Tender drawings and BPS (Annexure B) , please confirm the order of precedence to be followed.	Bidder shall refer clause no. 1.7.0 and 5.8.4 of " Vol II Sec-1-GTS_PSS 2." No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
194	Vol II Sec-1-GTS_PSS 2 R1	SCOPE OF WORK AND SERVICES	2.3.0 (1 &2)	7 of 73	The scope of work covers design, engineering, supply of all materials, construction, fabrication / assembly and testing at works, packing / dispatch / loading / unloading and transportation (including internal transportation and material handling at site) to site (including transit insurance) and erection of the following Civil, Structural and Architectural works of Pooling Substation-2: 1. Site related investigations (shall be carried out by bidder). a. Topographic survey. b. Geotechnical investigation. 2. Site Development works a. Site Grading including Soil stabilization and slope protection. b. Green Belt, Landscape development and horticulture including associated water supply system. c. Compound wall with gates for PSS-2 area. d. Internal roads and Culverts for PSS-2 area. e. Storm water drains and interconnection to outside main drains.	As per the scope of work & price bid, we understand that all civil works are paid lot basis. Please provide the following details for the proposed substation (PSS 2) in order to estimate the quantum of work. 1. Overall Plot plan indicating present scope of work, FGL and HFL 2. Global co-ordinates for all corners 3. Drainage outfall point	Bidder shall refer clause no. 15 of " Vol I Sec 5 SCC_PSS_2 " for Terms of Payment. Bidder shall refer clause no. 4.8, 6.6 of "Vol II Sec-2-26-CIVIL_PSS 2" and Please Refer Amendment-1 for Coordinates of PSS-2. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
195	Vol II Sec-1-GTS_PSS 2 R1	ANNEXURE-F: LIST OF DRAWINGS	Sr. No.: 9	73 of 73		We wish to inform that, the 400 kV Substation Layout-PSS-2 (Preliminary) (Dwg.no: FCE-1721125-EL-DWG-LAY-2100-035) is not attached with the tender document. Please provide the same in order to estimate the quantum of work.	Bidder shall refer " Vol II FCE-1721125-EL-DWG-LAY-2100-035" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
196	Vol II Sec-2-26-CIVIL_PSS 2	COMMON REQUIREMENTS FOR CIVIL WORKS	9.1	15 of 38	Grading of Concrete Unless required otherwise, cement used shall be Sulphate Resistant Cement conforming to IS 12330. Special cement, as appropriate, shall be used for structures, or portions of structures, exposed to chemicals. The type of cement shall be as per the soil investigation report. All structural concrete shall be design mixes only. Cement content shall be 350 kg / m3 of concrete unless otherwise specified in the detailed soil investigation report. Contractor shall produce concrete from fully automatic batching plant which shall be set up at project site. The Batching plant shall have sufficient capacity to complete the work within time schedule, efficient and calibrated. Contractor shall submit batch report of each concrete batch or engage concrete mixer equipment (batching plant) having facility of batch report of each concrete batch. All necessary test related to materials of concrete mix like cement, sand, steel, aggregates etc. shall be carried out regularly as per relevant IS code. The following grades of concrete as per IS: 456 shall be adopted for the type of structures noted against each. M 35 - RCC structures below ground (min). M 35 - RCC structures above ground (min). M 35 - Precast trench covers M15 - PCC 1: 4: 8 - Mud mat	We presume that the grade of RCC is M35, lean concrete M15, cement type Sulphate Resistant Cement & grade of reinforcement as Fe 500D coated with anti-corrosive paint. Please confirm.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
197	Vol II Sec-2-26-CIVIL_PSS 2	SUBSTATION STEEL STRUCTURES	7.0	7 of 38	The major steel structures in the Substation are towers, girders, etc. They shall be of latticed construction using angle sections. In addition, supporting structures for equipment, such as isolator, lightning arresters, etc. shall also be provided. These structures may be of tube section or latticed as the case may be.	We trust that, all Equipment support structure at all voltage shall be lattice type connecting by base plate with foundation bolts. Please confirm.	Bidder shall refer clause no. 7.0 of "Vol II Sec-2-26-CIVIL_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

Sr. No	Vol. No. & Section No.	Main Clause	Clause No.	Page No.	As per EPC Tender (GIPCL/RE PARK/PSS-2)	Bidder's Queries	GIPCL reply / clarification to Pre Bid Queries
198	Vol II Sec-1-GTS_PSS 2 R1	SCOPE OF WORK AND SERVICES	2.3.0	7 of 73	<p>The scope of work covers design, engineering, supply of all materials, construction, fabrication / assembly and testing at works, packing / dispatch / loading / unloading and transportation (including internal transportation and material handling at site) to site (including transit insurance) and erection of the following Civil, Structural and Architectural works of Pooling Substation-2:</p> <p>1. Site related investigations (shall be carried out by bidder). a. Topographic survey. b. Geotechnical investigation.</p> <p>2. Site Development works a. Site Grading including Soil stabilization and slope protection. b. Green Belt, Landscape development and horticulture including associated water supply system. c. Compound wall with gates for PSS-2 area. d. Internal roads and Culverts for PSS-2 area. e. Storm water drains and interconnection to outside main drains.</p> <p>3. Structural Steel works in 400 kV Pooling Substation. a. Towers and gantry girders in the Substation b. Equipment supporting structures for all Outdoor Substation equipment including GABs</p> <p>4. Buildings and Civil Works a. Foundation for all substation structures / masts / gantries / bus duct of 400 kV Pooling Substation. b. Prefab building for 400kV GIS bays with LCC including EOT crane & ventilation, illumination and other associated works complete in nature. c. RCC Cum Prefab Substation control building (Single storied) with all facilities like toilets, septic tank, soak pit, water supply, plumbing, ventilation, illumination and other associated works complete in nature. d. RCC works (Foundations, trenches, etc.) for 33kV Switchgear Buildings (PEB). e. Crushed stone paving in Substation f. Anti-weed treatment in Substation. g. Transformer foundations with soak pit. h. NIFPS Pit (if applicable), Walkways, Support structures for all the equipment. i. Civil & structural base plate / channel arrangement for all the panels. j. Rail cum road foundations for transformer. k. RCC Fire wall between the transformers (if applicable). l. Transformer Burnt oil pit. m. RCC Cable trenches. n. Foundation for DG Set. o. Diesel Storage Shed p. Transformer Oil Storage Shed q. High Mast and Street Lighting Foundations r. Septic tanks and soak pits. s. Service and Potable Water Supply System t. Cable trenches for GIPCL /Owner requirement as shown in the drawing no: FCE-1721125-EL-DWG-LAY-2100-035 u. Box Culvert arrangement for cable crossing internal road of PSS-2</p> <p>5. Approach Road & Drain (approx. length 2x50m) from main road to PSS-2. 6. Any other civil and structural works, which is not specifically mentioned in this document but required to complete the total 400 / 33kV GIS Pooling substation as EPC is also included in the scope of work.</p>	<p>We trust that, the approach road from main road to substation gate & Culverts for the proposed Substation (PSS 2) is not in bidders scope. Kindly confirm. If not kindly provide the length of approach road from main road to substation gate and width of approach road.</p>	<p>Bidder shall refer "Vol II Sec-1-GTS_PSS 2 R1" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>
199	Vol II Sec-1-GTS_PSS 2 R1	SCOPE OF WORK AND SERVICES	2.3.0	7 of 73	<p>5. Approach Road & Drain (approx. length 2x50m) from main road to PSS-2. 6. Any other civil and structural works, which is not specifically mentioned in this document but required to complete the total 400 / 33kV GIS Pooling substation as EPC is also included in the scope of work.</p>	<p>Please provide the following standard drawing (if available) for the proposed SS, 1. Cable trench and trench crossing 2. Drain & Drain crossing 3. Switchyard Road 4. Fencing and gate 5. Compound wall & gate 6. Car parking shed 7. Security cabin in order to estimate the quantum of work.</p>	<p>Bidder shall refer clause no 2.0.0 of "Vol II Sec-1-GTS_PSS 2 R1" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>
200	Vol II Sec-1-GTS_PSS 2 R1	SCOPE OF WORK AND SERVICES	2.2.0	5 of 73	<p>The scope of work covers design, engineering, manufacture, assembly and testing at works, packing / dispatch and transportation to site (including transit insurance), storage, erection, testing and commissioning of the following for Pooling Substation-2 (PSS-2 of 1200MW)..... Fire Protection system for EHV Step-up Power Transformer.....</p>	<p>We trust that, the fire fighting system for the proposed Substation (PSS 2) shall be NIFPS system. Hence the Fire fighting pump house & water tank reservoir for fire fighting system is not envisaged. Kindly confirm.</p>	<p>Bidder shall refer clause 4.5.0 and 5.25.0 of "Vol II Sec-2-2-DTS_STEP UP PT_PSS 2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>
201	Vol II Sec-2-26-CIVIL_PSS 2	Storm water Drain Network	6.6	5 of 38	<p>Storm water drainage network shall be provided for the entire substation area and the same shall be discharging to main storm water network of the solar park near the approach road. Drain shall be of RCC construction. The drawings shall indicate the basic drainage plan from the various units within the Substation. Invert level of drainage network and at outfall point shall be decided in such a way that water can easily be discharged outside the station Boundary. The maximum velocity and non-silting velocity shall be ensured.</p>	<p>As per referred clause, we understand that switchyard drain is in bidder's scope. However the following details are not mentioned in the tender document. Kindly clarify the following: i) Drain on both sides of road or Single side of road ii) Open or Closed. iii) Slope of drain</p>	<p>It shall be decided during Detailed Engineering. Bidder shall refer clause no 2.0.0 of "Sec-1-GTS_PSS_2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>

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202	Vol II Sec-2-26-CIVIL_PSS 2	Chain Link Fence	6.10	6 of 38	<p>PVC coated Galvanized Chain link fence shall be provided wherever necessary like transformer / reactor, capacitor bank, diesel generator, transformer oil storage shed and diesel storage shed etc.</p> <p>Fencing shall comprise of 2.4 m high PVC coated galvanized chain link fence of minimum 8 gauge (excluding PVC coating) with mesh size 75 mm. 3 lines of 12 gauge high tensile spring steel wire shall be provided for the entire length of fencing.</p> <p>Top of toe wall shall be 200 mm above formation level. Toe wall shall be generally of RCC construction and shall extend 150 mm below the formation level and the fencing mesh shall be embedded inside toe wall by minimum 75 mm.</p> <p>Fencing post shall be fabricated out of galvanized 65 x 65 x 6 MS angle section to tubular section, and shall be spaced at a maximum spacing of 2.5 m with struts made up of galvanized MS angle at every tenth fencing post in addition to those at expansion joints and bends. At any point, the minimum thickness of HDG shall be 126 micron and no averaging is allowed</p> <p>Removable type of fencing shall be provided, where ever necessary to take out equipments.</p> <p>Expansion joint shall be provided at every 60 m.</p> <p>All straining posts i.e., end posts shall be 65 x 65 x 6 MS angles. All corner posts will have two stay posts. Suitable concrete foundations for the angle iron posts and stays shall be provided based on the prevailing soil conditions.</p>	<p>As per referred clause, we understand that Chain link fence is in bidder's scope. However the following details are not mentioned in the tender document.</p> <p>Kindly provide the following details:</p> <p>i) Height of fence from FGL</p> <p>ii) Material details (Mesh size, Galvanisation, Pipe or angle)</p> <p>iii) C/c distance</p> <p>iv) Standard drawing (if available)</p>	<p>It shall be decided during detailed Engineering.</p> <p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>
203	Vol III 1 Soil Investigation_Part-1	DISCUSSION & RECOMMENDATIONS	7.0	51 of 144	<p>As per IRC 37 (2018), the pavement thickness (mm) is 570 mm for 5% CBR & 10 msa traffic volume. But where the CBR value is less than 5%, the prior ground improvement is required to achieve more than 5% CBR value, and then the above pavement thickness is adopted. The ground can be improved by using either good quality filling material, quarry dust, or CNS layer. The final verification of the CBR may be done by performing the field CBR test.....</p> <p>It is recommended to provide suitable ground improvement techniques wherever the strata are liquefiable. The report presented is representative of the bore locations and does not represent the entire area of construction as a whole.....</p>	<p>As per soil report recommendation, we observed that the ground improvement/soil stabilization treatment is required for the proposed area. During bidding stage it is very difficult to do detailed analysis for ground improvement.</p> <p>Kindly include the unit rate item for ground improvement/soil stabilization in price schedule or ground improvement/soil stabilization technique to be adopted for the proposed SS area.</p>	<p>Bidder shall comply with clause no 5.2 of "Sec-2-26-Civil_PSS_Rev 3". Bidder shall comply with clause no 2.3.0 of "Sec-1-GTS_PSS_2".</p> <p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>
204	Vol II Sec-2-26-CIVIL_PSS 2	SCOPE OF WORK	2.0 (4)	1 of 38	<p>4. Buildings and Civil Works</p> <p>a. Foundation for all substation structures / masts / gantries / bus duct of 400 kV Pooling Substation.</p> <p>b. Security Cabins</p> <p>c. 400 kV GIS Building - Pre Engineered Building (PEB).</p> <p>d. Substation Control Building.</p> <p>e. RCC works (Foundations, trenches, etc.) for 33kV Switchgear Buildings (PEB).....</p>	<p>Please provide the detailed specification for PEB building design, Material specification & construction specification for the proposed SS.</p>	<p>Bidder shall refer clause no. 3.0 of "Vol II Sec-2-13-DTS_PEB_PSS 2"</p> <p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>
205	Vol II Sec-2-26-CIVIL_PSS 2	Compound Wall	6.4	5 of 38	<p>Compound wall of 2.2 m height above FGL, with over and above 600 mm dia barbed wire concertina wire with HDG 'Y-Post' angle, shall be provided around entire substation area. Material of construction for compound wall shall be either precast wall panels or masonry with plastering. Wall shall be resting on grade beam which in turn will be resting on columns and foundations. Coping wall shall be provided at top. Both surfaces (internal and external) shall be painted with weather proof paint. Contractor shall take into account the stability of boundary wall against any settlement.</p>	<p>We trust that, the Compound wall shall be precast wall panels and the same shall be constructed in NGL for the proposed PSS 2. Please confirm.</p>	<p>Bidder shall refer clause no. 6.0 of "Vol II Sec-2-26-CIVIL_PSS 2"</p> <p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>
206	Vol II Sec-2-26-CIVIL_PSS 2	SITE DEVELOPMENT WORKS	6.1	5 of 38	<p>Site Grading</p> <p>The land is almost flat and will be handed over to the Contractor as it is basis.</p>	<p>In referred clause, it is mentioned that "The land is almost flat and will be handed over to the Contractor as it is basis". However in tender document the FGL for the proposed PSS 2 is not specified. Kindly specify the FGL.</p>	<p>Bidder shall refer "clause 4.8 of Vol II Sec-2-26-CIVIL_PSS 2"</p> <p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>
207	Vol III 1 Soil Investigation_Part-1 & Vol III 1 Soil Investigation_Part-2					<p>Please provide the detailed specification for Geo technical investigation for the proposed SS.</p>	<p>The Preliminary RE Park Soil Investigation is attached.</p> <p>Bidder shall refer " Vol III 1 Soil Investigation_Part-2 " and "Vol III 1 Soil Investigation_Part-1.</p> <p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>
208	Vol II Sec-2-25-FPS_PSS 2	SCOPE OF WORK	3.0.0	1 of 6	<p>3.1.0 A comprehensive fire detection, alarm as well as fire protection system shall be installed in conformity with relevant IS. In addition, all buildings shall conform to National Building Code.</p> <p>3.2.0 All building inside the substation or switchyard such as control room building, GIS hall, relay room etc., shall be provided with fire detection and alarm system based on smoke detector and/or heat detectors. The fire alarm system shall conform to relevant IS or IEC standards.</p> <ul style="list-style-type: none"> • Fire Detection and alarm System • Portable Fire Extinguishers • Wheel/ Trolley mounted Fire Extinguishers • Sand buckets (min. 9Ltrs capacity) with stand • Any other requirement (If Required as per CEA Regulations and other regulatory regulations) <p>3.3.0 All the systems shall be designed in such a way so as to make the system complete and acceptable to TAC/nominated agency of insurance companies.</p>	<p>We are not considering any water based fire protection for sub station. Please confirm.</p>	<p>Bidder shall refer clause 4.5.0 and 5.25.0 of "Vol II Sec-2-2-DTS_STEP UP PT_PSS 2" and clause no. 3.00 of " Vol II Sec-2-25-FPS_PSS 2"</p> <p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>

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209	Vol I Sec 4 GCC_PSS_2_R2	POWER TO VARY OR OMIT WORK	44.2 44.3	33 of 55 34 of 55	<p>In the event of the Owner requiring any variation such reasonable and proper notice shall be given to the Contractor to enable him to work his arrangements accordingly and in cases where goods or materials are already prepared or any design, drawings or patterns made or work done required to be altered, contractor shall carry out such works without any cost escalation to the Owner.</p> <p>In any case in which the Contractor has received instruction from the Owner/Purchaser as to the requirement of carrying out the altered or additional substituted work which either then or later on, will in the opinion of the Contractor, involve a claim for additional payment, the Contractor shall immediately and in no case later than thirty (30) days, after receipt of the instructions aforesaid and before carrying out the instructions, advise the Owner/Purchaser to that effect. But the Owner/Purchaser shall not become liable for the payment of any charges in respect of any such variations, unless the instructions for the performance of the same shall be confirmed in writing by the competent authority of owner / purchaser.</p>	<p>We understand that in case of variation proposed by Owner, any cost escalation due to these changes which is informed by contractor in due course with documentary evidence will be compensated by the owner and suitable time extension will be provided. Please confirm if our understanding is correct.</p> <p>Please confirm that quantity variation proposed by Owner is not fixed & quantifiable. Request you to accept the ceiling for quantity variation up to +/-15% of Contract value.</p>	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
210	Vol I Sec 6 ECC_PSS_2_R2	REGULATION OF LOCAL AUTHORITIES AND STATUTES	3.1	5 of 27	.....Bidder shall consider BOCW cess only on the Civil & Erection works as per the BOCW Act.	As per the final Verdict of Supreme court the BOCW Applicable only on the Civil portion of the contract. Kindly confirm.	Bidder shall refer Amendment-1.
211	Vol I Sec 5 SCC_PSS_2_R2	WORK COMPLETION PERIOD	7.1	6 of 19	The project schedule for design, engineering, manufacturing, supply, delivery at site, loading, unloading, handling at site, civil construction, erection, testing, commissioning, Taking Over of the Plant 400/33 kV Pooling Substation (GIS) with 04 (Four) nos. 340MVA, 400/33/33kV Power Transformers system, 400 kV GIS Bays and auxiliaries for PSS-2 (1200MW) of 2375 MW Solar/Wind/Hybrid Renewable Energy Park Project at Great Rann of Kutch, Gujarat shall be 15 months from the date of issue of LOI.	Considering the long lead items such as transformers and GIS along with the erection, testing and commissioning time, it will be difficult to complete all activities within 15 months (including monsoon) We therefore request that the completion time for the project to be revised to 18 months to enable sufficient time for all activities.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
212	Vol I Sec 1 NIT_PSS_2_R2	TABLE B: IMPORTANT AMOUNTS	Sr. No.: iii	5 of 20	Security Deposit cum Performance Bank Guarantee (PBG) : The Contractor shall furnish Security Deposit (SD) cum Performance Bank Guarantee (PBG) equivalent to 10% (ten percent) of the Contract Value within 30 days after issuance of LOI. The validity period of Security Deposit cum PBG should be for a total period up to 39 months (i.e. 15 months completion period + 12 months defect liability period)	As per Notification of Govt of India 9/4/2020- PPD issued on 30th Dec 2021 - Performance security for contracts shall be reduced to 3% for all contracts up to 31st Mar'23. In line with the same, we request that the requirement of Performance Bank Guarantee may be reduced from 10% of Contract Value to 3% of Contract Value	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
213	Vol I Sec 7 List of Appendices_PSS_2_R2	APPENDIX-23: BID EVALUATION CRITERIA, B. EVALUATION CRITERIA:	Sr. No.: 8	41 of 70	Lowest Five (5) eligible bidders or 50% out of total eligible Bidders (rounded to the next higher whole number), whichever is higher shall be invited for participation in e-Reverse Auction.	We request to accept L1 bidder as a successful bidder to issue the order as per the other state utilities & Central PSU tenders (recently NTPC REL has removed reverse auction from their Pooling substation tender at khavda), which will enable bidder to work and submit the best techno-commercial offer during bid submission stage itself. Also, this will save time in during tender process & avoid non-performance during execution due to fair pricing of the contractor during bid submission.	No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
214	Vol I Sec 2 ITB_PSS_2_R2	BANK GUARANTEES & EMD	11.6 (i)	13 of 14	Security Deposit cum Performance Bank Guarantee (SD/PBG) as per the format given in Appendix 16 (B): Format of Bank Guarantee for Security Deposit/ Performance Bank Guarantee, shall be furnished in favour of Gujarat Industries Power Company Limited (GIPCL). The Successful Bidder shall submit Security Deposit cum Performance Bank Guarantee of 10% of EPC Contract Price, within 30 days after issuance of LOI as per the format given in Appendix 16(B). The validity period of PBG should be for a total period of up to 39 months (i.e. 15 months completion period + 12 months defect liability period + 12 months claim period) from the date of Lol, the PBG shall have to be extended for further 6 months beyond the due date and when asked by GIPCL based on the revised approved completion schedule of PSS-2. However, in case Bidder fails to submit PBG within 30 days after issue of date of LOI, GIPCL reserves the right to cancel LOI and to recover all cost and liability thereof from Bidder. Validity including Claim period of SD/PBG shall be of 39 months from date of Lol or, extended further as asked by GIPCL based on the revised approved completion schedule of PSS-2.	We understand that PBG will be applicable till the End of DLP period +12 months for claim period. Please confirm.	Bidder understanding is correct. No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.
215	Vol I Sec 6 ECC_PSS_2_R2	DEFECT LIABILITY	35.11	20 of 27	In addition, the Contractor shall also provide an extended warranty for any such component of the Facilities and for the period of time. Such obligation shall be in addition to the Defect Liability Period specified under Clause 35.0.	Kindly clarify the scope and time duration on extended warranties also mention the material/equipment covering the additional defect liability period for the project.	Bidder shall refer "Vol I Sec 2 ITB_PSS_2" No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.

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216	Vol I Sec 4 GCC_PSS_2_R2	PRICE ESCALATION	80.1	46 of 55	<p>The rate(s) quoted against the work shall remain firm during the entire Contract period basis except the price variation allowed for the item listed below.</p> <p>A) Price variation clause for Power Transformer above 33kV up to 400kV Voltage level In case of any variation in these prices and index numbers, the price payable shall be subject to adjustment, up or down in accordance with the following formula:</p> $P = \frac{P_0}{100} \left(6 + 32 \frac{C}{C_0} + 27 \frac{ES}{ES_0} + 12 \frac{IS}{IS_0} + 4 \frac{IM}{IM_0} + 9 \frac{TO}{TO_0} + 10 \frac{W}{W_0} \right)$ <p>Wherein, P = Price payable as adjusted in accordance with the above formula. In case of upward price variation, P0 = Rs. 20,00,00,000/- (Fixed by GIPCL- Ex-works and Excluding GST/ Ex-works price excluding Quoted by Bidder in the schedule of price 4. This is price of one 400/33/33 kV, 340MVA Transformer).....</p>	<p>Considering the current commodity price fluctuations and market conditions. Transformer orders with suppliers are already in abundance till factory capacity. Due to these factors, Base price considered by you for power transformer is not viable. We request you to please remove the cap on base price without PV ceiling in line with other state & central utilities i.e. RRVNPL, PGCIL, NTPC.</p>	<p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>
217	Vol I Sec 2 ITB_PSS_2_R2	BANK GUARANTEES & EMD	11.6 (ii)	13 of 14	<p>Bank guarantee for an amount equal to 3% of the EPC contract price shall be furnished by the successful bidder for Power Transformer and Gas Insulated Switchgear (GIS) as per format enclosed (Appendix-16 (B)). The said Bank Guarantee for has to be furnished 30 days before the completion of Defect Liability Period and should be valid up to 60 months from the date of taking over by GIPCL/ Owner. For the Other equipment/ Systems/ Plants the Contract performance bank guarantee period shall be as per clause above.</p>	<p>We need to submit PBG of 3% within 30 days before expiry of DLP & the validity period of PBG should be 60 months from the date of Taking Over. We understand that 3% PBG for transformer & GIS will be valid for 48 months from DLP end. Please confirm.</p>	<p>No Change in Tender Conditions. Bidder shall Comply with Tender Conditions.</p>