

**Pre-Bid queries & clarifications**

**GeM Bid Numbers: GEM/2022/B/1844116, GEM/2022/B/1930501 & GEM/2022/B/1931415**

**Supply and Retrofitting of Existing 420 KV, 245KV Circuit Breakers at Hyderabad, NagarjunaSagar, Kadapa, Munirabad, Gooty, Khammam, Vijayawada and Gajuwaka under RATL, CTP and CTP**

**Augmentation Add cap**

<i>SI No</i>	<i>Section</i>	<i>Clause Reference</i>	<i>Description</i>	<i>Queries by Bidders</i>	<i>POWERGRID Reply</i>
1	Scope of work	Supply Portion	The scope of work under the subject package covers supply & retro fitment of 420KV CBs, 245KV CBs. with new circuit breakers, including support structure, terminal connectors and as specified in detailed BOQ and technical specification on FOR destination basis	Since we confirm that adaptation shall be done to meet the existing foundation, we would request you kindly allow us to utilize existing support structure wherever feasible. Please confirm	<b>Utilisation of existing support structures is not envisaged</b>
2	Scope of work	Supply Portion	The scope of work under the subject package covers supply & retro fitment of 10 Nos. 420KV CBs, 02 Nos. 245KV CBs. with new circuit breakers, including support structure, terminal connectors and as specified in detailed BOQ and technical specification on FOR destination basis	We request you to kindly allow us to directly dispatch of support structure and ladder with platform from our sub vendor works to PGCIL sites as these are bought out items. Please confirm.	<b>Confirmed. However, supplied material shall accompany with necessary quality documentation (CIP/MICC)</b>
3	Scope of work	Service Portion	i. Existing foundation for CB is to be utilized. Any modification/preparation required in the existing foundation or new foundation may also be considered with approval of POWERGRID. In case of requirement of new foundation proper concreting with M25 grade and proper compaction of earth to be ensured.	we would request you to share the existing CB drawings details for the all sites to consider the suitable adaptor plate.	<b>Drawings of existing shall be provided. However bidder may visit respective sites for assessing the retrofitting works</b>
4	Scope of work	Service Portion	iv. Removing of existing cable between control room & Marshaling Box, (removing from MB with proper Identification). Removing of inter phase cabling etc.	We understand that only disconnect & removal of power & control cables in the LCC/MB <b>at switchyard portion only (not in C&amp;R panel)</b> Please confirm	<b>Interpole cabling is in bidders scope. Cables from control/protection panels to new CB may be utilised. However, any additional requirement of cables due to length variation during retrofitting shall be in the scope of bidder. Jointing in control/power cables is not allowed.</b>
5	Scope of work	Service Portion	v. Fitment of same cable (control circuit) and remote wires in newly installed MB	Supply of any new power cables is not in bidder's scope. Please confirm	
6	Scope of work	Service Portion	v. Fitment of same cable (control circuit) and remote wires in newly installed MB	In case, if existing cables fall short or No. of cores not enough, supply & laying of new cabled will be in PGCIL scope. Please confirm.	
7	Scope of work	Service Portion	General	Please confirm testing instruments - timing, IR Kit, dew point and DCRM kit shall be provided by PGCIL at all sites.	<b>As per the Scope, precommissioning checks of CB is in POWERGRID Scope. Accordingly necessary testing instruments are in POWERGRID Scope</b>
8	Scope of work	Service Portion	General	Please confirm man lifter shall be provided by PGCIL at all sites free of cost.	<b>Boom lift may be provided on chargeable basis subject to availability</b>
9	Scope of work	Service Portion	General	Kindly confirm accomodation facility shall be provided for our engineers at PGCIL Guest House	<b>Shall be provided on chargeable basis and subject to the availability</b>
10	Technical Specification	CB Technical specifiacion-rev 11:-	12. xii) Transducers/Fixtures required for travel measurement shall be supplied by CB manufacturer. The complete set of Transducers/Fixtures for measurement of complete 3-phase CB shall be supplied for each station.	Since we are supplying breakers to existing sub stations, we request you to confirm the requirement of travel measurement is still to be supplied.	<b>One complete set of Transducers/Fixtures at each site needs to be supplied as per the tchncl specifications.</b>
11	GCC	clause: 32	Force Majeure	Force Majeure clause in the contract must expressly provide for Epidemic and Pandemic as well, as force majeure events. As per the actual classification by the World Health Organization (WHO) COVID-19 is considered a Pandemic	<b>Covid Pandemic related delays shall be treated as Firce Majeure based on Government notifications only.</b>
12	General			Bidder request to you Kindly add this clause in tender document: "The impacts of Coronavirus cannot be reasonably determined at this time. This proposal does not account for any potential adverse impacts of Coronavirus on GE's performance of obligations. In the event of any delays and adverse impacts, GE reserves the right for an equitable adjustment of the schedule and prices herein to offset the effects of Coronavirus delays."	<b>No clause shall be added. It is a firm price contract and revision of Prices is not allowed on any account. Time shcedule adjustment subject to Force Majeure Clause.</b>

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<i>Sr. No</i>	<i>Clause No</i>	<i>Page No</i>	<i>PGCIL Requirement</i>	<i>Siemens Comment/Clarification</i>	<i>PGCIL Reply</i>
1	ATC_aeedc318-c602-4cd6-88af-c66fd62856df_buyerhydrabad4  3.SCOPE OF WORK: Service Portion:-	3 & 4	vi.-Erection, testing & commissioning of new CB including earthing. The Supply of earthing materials shall be in the scope of bidder. xiv.Pre commissioning testing of the CB is in POWERGRID scope.	Point no 6 , it is mentioned that erection,testing and commissioning of CB is in bidder's scope.However in point no-14, it is stated that pre-commissioning testing of CB is in Powergrid scope. Please clarify.	<b>No Clarification required</b>
2	ATC_aeedc318-c602-4cd6-88af-c66fd62856df_buyerhydrabad4  3.SCOPE OF WORK: Service Portion:-	3	vii.Wiring to existing CSD in the switchyard is in the scope of Bidder, wherever it is available. Wherever applicable, existing CSDs will be used. If re commissioning of CSD is required, it will be in the scope of POWERGRID	We understand that scope of bidder will be limited to termination of existing control cables at CSD kiosk or control relay panel. CSD commissioning,final tuning and supply of CSD with accessories including cables shall be in the scope of PGCIL. Please clarify	<b>Scope of bidder is limited to termination of existing control cables pertainign to existing CSD at new CB MB. However, any additional requirement of cables due to length variation during retrofitting shall be in the scope of bidder. Jointing in control cables is not allowed. CSD commissioning, final tuning with accessories shall be in the scope of PGCIL. Please clarify</b>
3	ATC_aeedc318-c602-4cd6-88af-c66fd62856df_buyerhydrabad4  3.SCOPE OF WORK: Service Portion:-	4	i. The Sf6 Gas Handling plant shall be provided by POWERGRID	As per given scope , SF6 gas handling plant shall be provided by POWERGRID. Bidder will not deploy SF6 gas handling plant however if still it is required for any reasons than it will be deployed on chargeable basis.	<b>SF6 Gas Handling plant will be provided by POWERGRID</b>
4	ATC_aeedc318-c602-4cd6-88af-c66fd62856df_buyerhydrabad4  3.SCOPE OF WORK: Service Portion:-	4	ix.Fixing of IPS Tubes along with modification if any suit the new breaker. Supply of additional IPS tube, if required shall be in the scope of POWERGRID.	As per given scope , IPS tubes shall be provided by POWERGRID if required. Bidder will not supply IPS tubes however if still it is required for any reasons than it will be supplied on chargeable basis. Bidder will keep the best effort to utilize existing IPS tubes.	<b>Supply of additional IPS tube, required if any is not in the scope of bidder</b>
6	SECTION – II SPECIAL CONDITIONS OF CONTRACT (SCC) SCC Clause no.10 and GCC -8.1 Appendix - 1 (Terms and Procedures of Payment)	5	8.1.3 For Service Portion: 100% payment shall be paid after completion of erection ,testing and commissioning of equipment at respective site(s) and issuance of Taking Over Certificate.	We request POWERGRID to pay 100 % service payment against 100 % work completion of each circuit breaker in individual substations.	<b>TOC shall be issued on completion of works at each station. However, if there is any delay in retrofitting of individual CB, beyond the control of bidder, TOC will be issued for balance scope of work at that station.</b>
7	ATC_aeedc318-c602-4cd6-88af-c66fd62856df_buyerhydrabad4  3.SCOPE OF WORK: Service Portion:- vii	3	Wiring to existing CSD in the switchyard is in the scope of Bidder, wherever it is available. Wherever applicable, existing CSDs will be used. If re commissioning of CSD is required, it will be in the scope of POWERGRID	The synchronization of existing CSD (other than Siemens Make) at site is not validated with Siemens make circuit breakers. Therefore, we recommend to use Siemens make CSDs with Siemens make circuit breaker. Request your kind confirmation.	<b>Supply of new CSD is not envisaged</b>

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8	TECHNICAL SPECIFICATION SECTION: SWITCHGEAR-CB REVISION-11 16.0 TECHNICAL PARAMETERS FOR CIRCUIT BREAKER	24	30 ) Minimum Creepage distance*  i) Phase to ground (25mm/kV) ii) Between CB Terminals	We understand, creepage distance for all the substations is 25mm/kV, kindly confirm. Kindly clarify, if any substation belongs to coastal area which is having different creepage requirement.	<b>Already mentioned in Technical Specification as 25 mm/kV.</b>
9	SECTION – I INSTRUCTIONS TO BIDDERS (ITB)	8	The prices quoted shall remain firm during the currency of the contract and no price adjustment shall be applicable.	Considering the current commodity price inflation, we request PGCIL to allow price variation clause for this tender.	<b>It is a firm price contract</b>
10	ATC_aeedc318-c602-4cd6-88af-c66fd62856df_buyerhydrabad4  3.SCOPE OF WORK: Supply Portion:-	2 & 3	Breaker, including support structure, terminal connectors as per technical specification Rated continuous current (A) at design ambient temperature: 3150A Rated short circuit current breaking capacity at rated voltage: 50KA Symmetrical interrupting capability (KA rms): 50KA rms Rated short circuit making current (kAp):125 kAp Short time current carrying capability for 01 sec (kA rms):50 kA rms  Supply of 245KV, 2500A, 50KA for 1 sec with & without PIR SF6 circuit Breaker, including support structure, terminal connectors as per technical specification  Rated continuous current (A) at design ambient temperature: 2500A Rated short circuit current breaking capacity at rated voltage: 50KA Symmetrical interrupting capability (KA rms): 50KA rms Rated short circuit making current (kAp): 125kAp Short time current carrying capability for 01 sec (kA rms): 50kArms  The CB shall be complete with support structure, terminal connectors, operating mechanism, control cabinets, piping, inter pole cables, cable accessories like glands, terminal blocks, marking ferrules, lugs, pressure gauges, density monitors (with graduated scale), galvanized support structure for CB and control cabinets their foundation bolts, if required, and all other accessories required for carrying out all the functions the CB is required to perform.	We understand, no spares are required for this tender. Kindly confirm.	<b>Scope is clear. No further clarification required.</b>