



ASSAM ELECTRICITY GRID CORPORATION LIMITED

OFFICE OF THE MANAGING DIRECTOR

Regd. Office: (FIRST FLOOR), BIJULEE BHAWAN, PALTANBAZAR; GUWAHATI - 781001

CIN: U40101AS2003SGC007238 GSTIN: 18AAFCA4973J9Z3

PHONE: 0361-2739520 Web: www.aegcl.co.in

MINUTES OF PREBID MEETING

Bid Identification No.:	AEGCL/MD/Tech-31/400kV Khumtai/2026/BID Dated 27.08.2026
NIT No.:	AEGCL/MD/Tech-31/400kV Khumtai/2026/NIT Dated 27.08.2026
Name of the Work	Upgradation of existing 220/132/33kV GIS at Khumtai to 400kV level with transformation capacity 2 X 500 MVA
Date of Pre- Bid Meeting	24/09/2026
Venue of Pre-Bid Meeting	Conference Room O/o the MD, AEGCL, 1 st Floor, Bijulee Bhawan, Paltan Bazar, Guwahati-01

OPENING REMARKS:

Smt. Jayashree Devi, CGM (PP&D), AEGCL extended a warm welcome to all the prospective bidders and introduced his team.

Sri Bikram Bordoloi DGM (BD&T), AEGCL briefed on tender "Upgradation of existing 220/132/33kV GIS at Khumtai to 400kV level with transformation capacity 2 X 500 MVA". It was assured to the prospective bidders that comprehensive reply/clarifications shall be prepared and uploaded in the AEGCL site as well as e-tender portal in response to their raised queries on the bid document.

NAMES OF THOSE PRESENT (Attendance Sheet enclosed herewith):

1. FROM EMPLOYER:

1. Smt. Jayashree Devi, CGM (PP&D), AEGCL
2. Smt. Rijumani Sarmah, CGM (UAR), AEGCL
3. Sri Pranab Kumar Sarmah, CGM (F&A), AEGCL
4. Sri Ashish Hazarika, GM (M&PR), AEGCL
5. Sri Rituparna Khargharia, GM (P&D), AEGCL
6. Md. Feisal Hussain Hasmi, DGM (EAP II), AEGCL
7. Sri Bikram Bordoloi, DGM (BD&T), AEGCL



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8. Sri Himangshu Raj Gogoi, DGM (P&D), AEGCL
9. Sri Dhriti Lochan Hazarika, AGM (BD), AEGCL
10. Sri Prantik Pran Saikia, AGM (AGMP&D), AEGCL
11. Sri Dipankar Chakraborty, AGM (Law), AEGCL
12. Sri Anup Jyoti Dutta, AM(PR), AEGCL

2. FROM PROSPECTIVE BIDDERS:

A. BIDDERS THAT WERE PRESENT AT THE PRE-BID MEETING:

1. M/s Reliance Electric Works.
2. M/s Kalpataru Projects International Limited
3. M/s Shyama Power
4. M/s Siemens Limited
5. M/s GVPRL, Hyderabad (Through VC)
6. M/s Hyosung (Through VC)

MEMBERS OF THE PRE-BID COMMITTEE:

1. CGM (PP&D), AEGCL
2. CGM O&M, (UAR), AEGCL
3. CGM (F&A), AEGCL
4. GM (M&PR), AEGCL
5. GM (P&D), AEGCL
6. GM (Civil), AEGCL
7. DGM (EAP-II), AEGCL
8. DGM (BD&T), AEGCL
9. DGM (P&D), AEGCL
10. AGM (Law), AEGCL

The queries submitted by the prospective bidders were discussed by the Pre-Bid Committee and the observations made are as follows in Table-1.

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Table-1

Sl. No.	Clause of Specification/Reference Clause No.	Tender Provision/details on tender	Queries on Specification/clarification sought/Request	Clarification from AEGCL
1	NIT	Completion Time 24 Months	As per Section VIII - SCC - Clause No. 8.2 time for completion given as 36 months from the effective date - Our understanding completion period is 36 Months - Please confirm.(pg 128)	As per NIT, Completion Period 24 months. Refer to Addendum-II
2	SECTION – II - 2. Instructions to Bidders 2.31.4 (pg 24)	The evaluation of a bid will exclude and not consider (i) IGST/SGST/CGST payable on the Goods/items/services quoted. GST, if payable, shall be paid at the applicable rate. (ii) Any other component as specified in the BDS	Our understanding is that the Price Bid Evaluation shall be carried out excluding GST. Kindly confirm whether the evaluation shall be based on the bid price excluding GST.	Price Bid Evaluation shall be carried out excluding GST
3	Appendix 1:Terms and Procedures of Payment (pg 138)		Considering the substantial initial financial requirement for procurement of materials and execution of the works, we request to kindly provide a Mobilization Advance of 15% of the Contract Price against an appropriate Bank Guarantee, applicable to both the Supply and Erection portions.	Refer to Sl. No. 173 of this document.
4	Appendix 2: Price Adjustment -NOT APPLICABLE (pg 141)		Considering the project duration of 36 months and the frequent fluctuations in the prices of major materials and equipment, we request to kindly provide a suitable Price Adjustment/Price Variation mechanism for at least the major supply items, such as Power Transformers, Conductors, Cables and other major equipment.	As per Tender
5	Approve Vendor List		Kindly provide the approved vendor/manufacturer list for the major materials and equipment covered under the scope of work, to enable the bidders to obtain quotations from the approved vendors and prepare their bids accordingly.	AEGCL does not have a vendor/manufacturer list
6	BOQ_84589		The Grand Summary is missing from BOQ_84589 Since the Grand Summary is required for incorporating the total value in the Price Bid Form and represents the consolidated value of all seven BOQs, we request the Employer to kindly provide the Grand Summary	As per Tender
7	6.1 (a) Letter of Financial Bid FORM-B1(a) (pg 44)	Point (c). [amount of local currency in words], [amount in figures] The total Tender price from the Grand Summary should be entered by the Tenderer inside this box. Absence of the total Tender price in the Letter of Price Tender may result in the rejection of the Tender.	The Grand Summary is missing from the provided BOQ_84589. Kindly provide the Grand Summary. Further, please clarify whether the Total Tender Price to be indicated in FORM-B1(a) shall be exclusive of GST or inclusive of GST.	As per Tender
8	6.4 Manufacturer's Letter of Authorization3 FORM-B4 - (MLA) (pg 61)		As per Section IV – Evaluation and Qualification Criteria, Clause 4.2.1(c), our understanding is that the Manufacturer's Letter of Authorization (MLA) is required for GIS, Power Transformers, CRP and SAS. Kindly confirm.	As per Tender
9	Funding of the project.		The Tender Document does not specify the funding arrangement/source for the Project. We request to kindly provide details regarding the source of funding.	AEGCL's own arrangements
10	Shutdown / outage	Since the project involves Upgradation of an existing energized substation, please specify the planned shutdown/outage windows that will be made available to the contractor.	This nature of works can be substantially affect manpower, erection sequence and project duration. Please clarify.	As per Tender

11	Volume-I, SECTION IV.3 Evaluation and Qualification Criteria, 4.2 Qualification Criteria 4.2.1 (c) Manufacturers/Subcontractor, Table SI. No. 1, GIS, Point No. V (pg 31, 35 36)	V. The Tenderer shall furnish performance guarantee for an amount of 20% of the ex-works cost of GIS equipment(s) for a period of five (5) years after completion of the defect liability period. This performance guarantee shall be in addition to Contract Performance Guarantee to be submitted by the tenderer to cover the Contractor's extended defect liability in accordance with the provision in the SCC, pursuant to GCC Subclause 27.10. If the tenderer is not the manufacturer, the agreement between the tenderer and the GIS manufacturer containing the terms and conditions pertaining to this performance guarantee for 20% of the ex-works cost of GIS equipment(s) for a period of five (5) years after completion of the defect liability period shall be submitted to AEGCL, 3 months prior to the expiry of the defect liability period.	V. The Tenderer shall furnish performance guarantee for an amount of 5% of the ex-works cost of GIS equipment(s) for a period of five (5) years after completion of the defect liability period. This performance guarantee shall be in addition to Contract Performance Guarantee to be submitted by the tenderer to cover the Contractor's extended defect liability in accordance with the provision in the SCC, pursuant to GCC Subclause 27.10. If the tenderer is not the manufacturer, the agreement between the tenderer and the GIS manufacturer containing the terms and conditions pertaining to this performance guarantee for 5% of the ex-works cost of GIS equipment(s) for a period of five (5) years after completion of the defect liability period shall be submitted to AEGCL, 3 months prior to the expiry of the defect liability period.	Refer to Addendum-I of the Bid Documents
12	Vol-II scope, Page No:29	Present 400 kV bays = 9 Nos Future 400 kV bays = 13 Nos Total 400 kV bays = 22 Nos. Present 220 KV ICT bays = 2 Nos. Total including listed future 400 kV bays = 24 Nos.	The tender documents indicate 9 Nos. present 400 KV GIS bays and 13 Nos. future 400 kV bays, in addition to 2 Nos. present 220 KV ICT bays. Kindly confirm the present contractual GIS bay scope and clearly identify all future bays/provisions excluded from the present contract.	400kV present scope is Line bays 2, Transformer bays 2, Bus Reactor bays 2, Tie bays 3. 220kV present scope is Transformer bays 2. Refer SLD
13	BOQ-1- Item No.1	Surge Arresters - Quantity and Bay-wise Allocation	The BOQ provides 18 Nos. 398 kV, 20 kA surge arresters and 6 Nos. 216 kV, 10 kA surge arresters. Based on the present GIS configuration, these quantities appear to correspond to 2 Nos. 400 KV ICT bays + 2 Nos. 400 kV line bays + 2 Nos. 400 kV bus reactor bays (6 sets x 3 phases) and 2 Nos. 220 kV ICT bays (2 sets x 3 phases), respectively. The tender layout indicates future 400 kV line bays, ICT and reactor arrangements. Kindly confirm the bay-wise allocation of the surge arresters and clarify whether separate surge arresters are required for the three 400 kV tie bays. Please also confirm that the quoted quantities of 18 Nos. 398 kV LA and 6 Nos. 216 kV LA are applicable only to the present contractual scope and exclude all future 400 kV bays.	As per BoQ
14	BOQ-1-400 kV CVT/Wave Trap vs. 400 kV Line Bay Configuration	400 kV Wave Trap, 3150 A	The BOQ provides 6 Nos. of 400 kV CVTs and 4 Nos. of 400 kV wave traps for the present 400 kV line bays. Kindly provide the bay-wise and phase-wise allocation of CVTs and wave traps and confirm whether 4 Nos. of wave traps are sufficient for the two 400 kV line bays. Please also clarify whether wave traps are required for any tie bays or future line bays.	As per BoQ
15	BOQ-1, Items 1 & 2 vs. Khumtai Superimposed Layout	BOQ provides 18 Nos. 398 kV LA + 6 Nos. 216 kV LA, including corresponding support structures. The superimposed drawing contains present and future bays.	Please confirm that the BOQ quantities are applicable only to the present contract scope.	As per BoQ
16	BOQ-1, Items no. 1 & 2 vs. Khumtai Superimposed Layout	Tubular conductor	The BOQ provides 150 m of 4-inch IPS aluminium tubular conductor. Kindly provide the approved 400 kV switchyard GA/interconnection layout and quantity calculation supporting the 150 m quantity, including flexible connectors, expansion joints, Tjoints, end caps and other accessories.	Tubular conductor shall be used for equipment interconnection
17	BOQ-1 Items 6, 7 vs. superimposed layout	BOQ provides 24 Nos. 420 kV BPI and 6 Nos. 245 kV BPI with corresponding structures.	Please furnish the equipment-wise/bay-wise BPI schedule and confirm whether the quantities include future provisions or only the present scope.	As per BoQ

18	Vol-II	rail track	The BOQ provides one set of transformer rail track for the two 500 MVA transformers. Kindly confirm whether a common rail track arrangement is proposed for both transformers and provide the approved transformer foundation/rail-track layout.	Separate Rail Tracks for the 2 Transformers shall be provided and the Total Price for the 2 sets shall be Quoted in the Line Item 15.08 " Rail Track for Transformer : 1 Lot"
19	BOQ 1-13.03	6 Nos. of 245 kV SF6-to-Air bushings	The BOQ provides 6 Nos. of 245 kV SF6-to-Air bushings. Since the present 220 kV GIS scope comprises 2 Nos. ICT bays, 6 Nos. corresponds to 2 x 3-phase transformer connections. However, the item description also refers to outdoor connections to the power transformer and overhead lines. Kindly provide the bay-wise allocation and confirm whether the quantity of 6 Nos. includes only transformer connections or also any 220 kV overhead-line connections.	As per BoQ
20	BOQ-2/3 Items 8.01 & 8.02 vs. SLD	BOQ provides 3 Nos. 400 kV BMK and 2 Nos. 220 kV BMK. The furnished SLD/layout requires reconciliation with the number of bays and associated marshalling kiosks.	Please confirm the bay-wise allocation and quantity of Bay Marshalling Kiosks. Kindly issue the final approved BMK arrangement drawing.	As per BoQ
21	BOQ-2 Item 12.01-12.05 vs. 400 KV SLD	BOQ includes 2 line bays, 2 transformer bays, 3 tie bays and 2 reactor bays, with bus-bar modules and future extension arrangement.	Please confirm that the GIS bay quantities represent the complete present scope. Kindly provide the final approved 400 kV GIS bay configuration and one-and-half-breaker scheme for pricing.	As per BoQ
22	BOQ-2 Item 15.01	BOQ specifies 2x500 MVA, 400/220/33 kV transformers, while the overall superimposed drawing shows ICT-1 and ICT-2 as 500 MVA and ICT-3 as future.	Please confirm that only ICT-1 and ICT-2 are included in the present scope of contract and ICT-3 foundation is in present scope or not please confirm.	ICT-3 foundation is not in present scope
23	BOQ-1/2/3 Item 16-125 MVAR Bus Reactor	BOQ provides 2 Nos. 125 MVAR bus reactors, while the superimposed drawing identifies Bus Reactor-1 and Bus Reactor2/future arrangement.	As per BoQ 2 NOS Bus reactors are given whereas Superimposed drawings identified Bus Reactor -1 (present scope) AND Bus Reactor 2 as Futher arrangement Please clarify.	As per BoQ
24	BOQ-1 Item 17.01 vs. BOQ-2 Item 17.01	Battery capacity differs: BOQ-1 indicates 220 V, 800 AH, whereas BOQ-2 indicates 220 V, 900 AH.	Please clarify the battery capacity to be considered whether 800 AH or 900 AH.	As per revised BoQ
25	BOQ-1/2/3 Item 5.02	BOQ-1/2 specifies ACSR Moose Conductor - 2 km, whereas BOQ3 specifies the same item as 2 Mtr.	observed ambiguity in Boq1, Boq2 and Boq3 in Unitof Measurement. Wherein Boq 1 /2 specified ACSR Moose Conductor - 2 KMS whereas Boq 3 specified as - 2 Mtrs. Please clarify	As per revised BoQ
26	BOQ-4 Item 6.05 -45 RM vs. furnished 33 kV Cable Trench Drawing	The furnished drawing is specifically for the 33 kV Switchgear Room cum Control Room Building, whereas BOQ Item 6.05 is for the existing 220 kV GIS Building.	Please furnish the approved 220 kV GIS Building indoor cable trench drawing for the 45 RM quantity. Kindly confirm that the furnished 33 kV cable trench drawing is applicable only to BOQ Item 6.06.	During detail engineering
27	BOQ-4 Items 6.01-6.04 vs. cabletrench drawings	BOQ provides 200 RM Type-A, 200 RM Type-B, 300 RM Type-C and 300 RM Type-D, but complete outdoor routing and quantity breakup are not identifiable from the furnished drawings.	Please provide the approved cable trench routing/layout with typewise identification and chainage so that the quantities of TypeA/B/C/D trenches can be verified.	During detail engineering
28	BOQ-4 Item 6.11- Stone Spreading 7,000 Sqm vs. Switchyard Layout	BOQ provides a fixed area of 7,000 Sqm, while the switchyard layout contains present and future areas.	Please confirm the exact switchyard area to be covered by gravelling and whether future bay areas are included in the 7,000 Sqm quantity.	Present scope only
29	BOQ-1 Items 21 vs. existing/new GIS arrangement	Separate earthing is specified for 400 kV GIS modules, 220 kV GIS modules, 400 kV GIS building and 220 kV GIS building.	Please clarify the required interconnection philosophy between the main substation earth grid and the separate GIS earth mats, including permissible/required bonding points and copper flat sizes	During detail engineering
30	BOQ-1 Item 23.01 -10 Nos. 2 TR Split AC vs. GIS/Building Layout	BOQ specifies 10 Nos. 2 TR split AC units with N+1 arrangement, but room-wise allocation is not indicated.	Please furnish the room-wise HVAC load calculation and AC schedule identifying the number and capacity of AC units for CRP/PLCC/DB and other rooms, including N+1 philosophy.	During detail engineering

31	BOQ-1 Item 24.03 - Nitrogen Injection System, 4 Nos.	BOQ specifies 4 Nos. for 2 transformers + 2 reactors.	Please confirm whether nitrogen injection fire protection is required for both 500 MVA transformers and both 125 MVAR reactors and provide the applicable system specification.	Confirmed
32	BOQ-1 Item 24.04 - 100 KVA DG vs. Auxiliary SLD	A 100 KVA DG is included, but the complete emergency load schedule is required to establish DG adequacy.	Please provide the emergency load schedule and confirm the DG operating philosophy, AMF arrangement and loads to be supplied during normal/emergency conditions.	During detail engineering
33	BOQ-1 Item 26.02-4 Nos. 50 m Lightning Masts vs. Overall Layout	Four 50 m lightning masts are specified for the complete substation.	Please provide the NO. of fixtures and wattage to be considered for 50 meter High Mast Light	During detail engineering
34	Sonapur BPI/LA drawings vs. Khumtai BOQ	The furnished BPI and LA foundation drawings are identified as Sonapur drawings and contain annotations referring to old Sonapur circuits. We are unable to establish Khumtai foundation quantities.	Please confirm whether these drawings are only typical/reference drawings. Kindly furnish Khumtai-specific approved foundation drawings or the geotechnical/design criteria to be adopted for foundation.	As per submitted soil report
35	400 kV SLD vs. Overall Substation SLD	Two different SLDs are furnished, including an overall existing system SLD with review markups and a separate 400 kV SLD.	Please issue one clean, approved composite SLD covering 400 kV, 220 kV, 132 kV and 33 kV systems, reflecting the final contractual scope.	400kV SLD is present scope. Overall substation SLD is of existing substation
36	Superimposed Layout dated 29.08.2026 vs. BOQ	Several bays are identified as FUTURE, including future 400 kV lines, ICT and other facilities.	Please provide a clear demarcation between present-contract works and future provisions for civil foundations, GIS extensions, structures, earthing, cable trenches, roads and other infrastructure	Refer Chapter 2 of Volume II "Information to Bidders"
37	BOQ 4 - 2.01	400 KV GIS cum CRP/DB Building (PEB) along with GIS bay foundations complete on pile foundation [100m x (16+8)m]	It has been specified in the tender documents that the GIS Building foundation shall be constructed on a pile foundation. An approved Soil Investigation Report has also been provided as part of the tender documents. In this regard, kindly clarify whether the bidder may refer to the approved Soil Investigation Report and, subject to the design requirements and approval of the Engineer/Employer, propose and design the GIS Building on a raft foundation instead of a pile foundation, if the geotechnical and structural conditions permit. If a raft foundation is permitted, kindly clarify the following: Whether the bidder is allowed to adopt a raft foundation based on the recommendations/conclusions of the approved Soil Investigation Report and the bidder's detailed structural and geotechnical design. In case a raft foundation is accepted in lieu of the specified pile foundation, how will the payment be determined, considering that the BOQ item description is specifically based on a pile foundation? Whether payment for the raft foundation will be made based on the applicable BOQ items for concrete, reinforcement, excavation, formwork, etc., or whether a separate/revised BOQ item or rate shall be considered.	GIS building shall be on pile foundation only
38	BOQ-12.08	10 Ton EOT Crane for 400kV GIS Building	Excluded from GIS OEM scope of supply	EPC scope
39	BOQ- 12.09	Scissor Lift	All portions of supplied GIS shall be accessible using walkway and portable ladder, thus provision of portable scissor lift is not envisaged. If required same shall be in the scope of EPC.	EPC scope
40	BOQ-14.01	SF6 Gas Processing, Drying, Storage & Filling Unit	Excluded from GIS OEM scope of supply	EPC/OEM scope

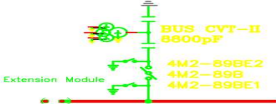
41	BOQ-14.02	SF6 gas quality testing unit	Excluded from GIS OEM scope of supply	EPC/OEM scope
42	BOQ-14.03	SF6 Gas Leak Detector	Excluded from GIS OEM scope of supply	EPC/OEM scope
43	BOQ-13.04	245kV, 50kA for 3 sec, SF6 Gas Insulated Bus Duct (GIB) single phase from respective GIS bay module up to SF6 to Air bushings	There is an discrepancy in BOQ & Chapter 2 of ITB where is GIB has to be considered from GIS Bay modules to Outer edge of GIS hall & in BOQ GIB has to be considered from GIS Bay modules to SF6 to Air bushings. Kindly confirm which one to be followed.	As per BoQ
44	BOQ-12.07	400kV, 63kA for 3 sec, SF6 Gas Insulated Bus Duct (GIB) single phase from respective GIS bay module up to SF6 to Air bushings	There is an discrepancy in BOQ & Chapter 2 of ITB where is GIB has to be considered from GIS Bay modules to Outer edge of GIS hall & in BOQ GIB has to be considered from GIS Bay modules to SF6 to Air bushings. Kindly confirm which one to be followed.	As per BoQ
45	BOQ 13.02	3- Ø 220 kV, 3150 A, 50 kA-3 sec, metal enclosed SF6 Gas Insulated Switchgear - Bus bar Module each enclosed in bus bar enclosures running along the length of the switchgear to interconnect each of the circuit breaker bay modules in Double Bus Bar configuration as per technical specification alongwith Extension module with all necessary arrangements for extension of the GIS in Double Main configuration.q	Being an Extension project if Shutdown shall be required for performing extension then same shall be arranged by EPC.	As per Tender
46	CHAPTER 2: INFORMATION TO BIDDERS (ITB) , 2.6.12.1 400kV GIS- a) 29	enclosed bus bar of 420kV, each set comprising of the following:- i. Three (3) individual bus bars enclosures running across the length of the switchgear to interconnect each of the circuit breaker bay modules in one and a half breaker bus system ii. One (1) number 3-phase, single pole 4000A, group operated isolator. switches, complete with manual and motor driven operating mechanisms. (Exact Number shall be as per OEM Type Tested Design) iii. One (1) number 3-phase, single pole group operated safety grounding switches, complete with manual and motor driven operating mechanisms. (Exact Number shall be as per OEM Type Tested Design) iv. Three (3) numbers 1-phase Potential Transformers with Isolating Link	For isolation purpose of Voltage Transformer during HV Test, motorised disconnectors as well as Potential Transformers with Isolating Link both are mentioned in given reference clause. In order to fulfill the purpose, Potential Transformers with manual Isolating Link will be sufficient. There will not be any requirement of motorised disconnectors. Kindly provide confirmation on same.	Motorised disconnecter is required
47	CHAPTER 2: INFORMATION TO BIDDERS (ITB) , 2.6.12.1 220kV GIS- a) 35	a) Set of 3-single(isolated) phase/Three phase, 3150A, 50kA for 3 second, SF6 gas- insulated metal enclosed bus bar of 245kV, each set comprising of the following:- i. Busbars enclosures running across the length of the switchgear to interconnect each of the circuit breaker bay modules in Double Busbar system. ii. One (1) number 3-phase, 3150A, group operated isolator switches, complete with manual and motor driven operating mechanisms. iii. One (1) number 3-phase, single pole group operated safety grounding switches, complete with manual and motor driven operating mechanisms.	We are already providing Bus isolators as a part of Transformer bays hence same shall be quoted against the line item of Transformer bays.	Confirmed
48	CHAPTER 2: INFORMATION TO BIDDERS (ITB) , 2.6 400kV Gas Insulated Switchgear	1. Three (3) numbers 1-phase, 1600-800/1A, (0.2S-PX-PX-PX-PX), 6-core, multi ratio, current transformers duly distributed on both side of circuit breaker. (LV side of 500MVA) with minimum knee point voltage 1:2 of CT ratio or higher.	Considering compactness of GIS we request your acceptance on minimum knee point voltage 1:1 of CT ratio.	As per Bid

49	General	1. 245kV, 50kA for 3 sec, SF6 to Air Bushing along with termination module & support structure for outdoor connections to connect GIS with 245kV side of Power transformer and overhead lines. 2. 400kV, 63kA for 3 sec, SF6 to Air Bushing along with termination module & support structure for outdoor connections to connect GIS with 400kV side of Power transformer, bus reactors and overhead lines.	Terminal connector is excluded from GIS OEM scope of supply.	EPC scope
50		Testing and Maintenance Equipment as per BPS	Testing and Maintenance Equipment are excluded from GIS OEM scope of supply	EPC scope
51	16.4.3 306	The switchgear, which shall be of modular design, shall have complete phase isolation.	As mentioned in CHAPTER 2: INFORMATION TO BIDDERS (ITB) , 2.6.12.1 220kV GIS- a): Set of 3-single(isolated) phase/ Three phase , 3150A, 50kA for 3 second, SF6 gas- insulated metal enclosed bus bar of 245kV, Hence, for 220kV GIS we are following three phase encapsulated busbar design. Other compartments of GIS shall be of isolated phase.	Accepted
52	16.4.9 307	Continuous bus lengths without gas segregation shall not be acceptable for any voltage level.	Please note that, proposed busbar design is passive. We meet the requirement of service continuity, maintenance & repair without provision of any barrier in busbar. In addition to that by putting additional gas compartment/ barrier in busbar we are indirectly increasing gas leakage points in GIS. This type of passive non segregated busbar design is type tested as per IEC 62271-203 and accepted by various state & central utilities. hence we request your acceptance on this design.	As per Bid
53	16.4.7 307	100 micro-meter or smaller sintered stainless-steel particle filtered disc shall be provided in gas filling port.	Gas filling shall be done using particle filter, hence we do not envisage such filter. However separate filter unit can be used with supplied filling ports during gas handling in future.	During detail engineering
54	16.4.9 307	The devices shall provide continuous and online monitoring (Display at SAS) of the density of the gas.	Kindly confirm weather an output of 6-20mA from the Gas density monitors will be required for the monitoring requirement	(6-20mA) output from Gas density monitors are required up to LCC panel along with all necessary arrangement/equipment for online Gas density monitoring through SAS
55	16.4.11 308	As minimum flexibility in the layout arrangement, it shall be possible to remove the circuit breaker with both bus bar remaining in service	We infer the requirement calls for withdrawal of CB Interrupters during repair and maintainance, and not the circuit breaker enclosure as it is not subject to any faults	Confirmed
56	16.4.12 308	The material and thickness of the enclosures shall be such as to withstand an internal flash over without burns through for a period of 300 ms at rated short time withstand current.	This value shall be in line with IEC 62271-203	As per trype tested design
57	16.4.14 309	Equipment. Inspection windows (View Ports) shall be provided for Disconnect Switch and both type of earth switches i.e. Maintenance and fast operating. Stroboscopic port shall also be provided.	View ports for DS & ES shall be provided. No stroboscopic port is available in market for GIS.	Accepted
58	16.4.17 309	In case the leakage under the specified conditions is found to be greater than 0.5% after one year of commissioning, the manufacturer will have to supply free of cost, the total gas requirement for subsequent ten (10) years, based on actual leakage observed during the first year of operation after commissioning.	We infer that an additional 10% extra gas shall be required to be supplied as spare to meet out any contingency requirements	As per BID.

59	16.4.19 309	The switchgear when installed and operating under the ambient conditions shall perform satisfactorily and safely under all normal and fault conditions. Even repeated operations up to the permissible servicing intervals under 100% rated and fault conditions, shall not diminish the performance or significantly shorten the useful life of the switchgear.	The switchgear is equipped with all necessary arrangements for protection from any internal and external faults without deteriorating its performance below recommended level. However, it is requested to inform the manufacturer in the event of any abnormal condition during its operation, so that suitable solution can be given.	As per BID
60	16.4.27 310	Manufacturer shall submit the study report of VFTO generated for GIS installation for 220 kV and above.	VFTO generally applies to GIS rated 400kV and above, thus a VFTO analysis report shall be provided for this rating only	Accepted
61	16.4.35 311	In addition to above suitable portable scissor lift shall be provided for access of distant portion of GIS installation.	All portions of supplied GIS shall be accesible using walkway and portable ladder, thus provision of portable scissor lift is not envisaged	Accepted
62	3.1 GAS INSULATING SYSTEM: 311	ii) Any other alarm necessary to indicate deterioration of the gas insulating system.	Not applicable for offered GIS	Confirmed
63	16.4.43.2 312	The contractor shall supply the entire material for grounding bus of GIS viz conductor, clamps, joints, operating and safety platforms etc. The contractor is also required to supply all the earthing conductors and associated hardware material for connecting all GIS equipment, bus ducts, enclosures, control cabinets, supporting structure, GIS surge arrestor etc. to the ground bus of GIS.	Excluded from GIS OEM scope of supply	Earthing conductors, clamps, joints etc shall be provided by GIS OEM from GIS equipment up to earthing risers
64	16.4.43.3 313	The enclosure of the GIS may be grounded at several points so that there shall be grounded cage around all the live parts. A minimum of two nos. of grounding connections should be provided for each of circuit breaker, current transformers, voltage transformers, cable terminals, surge arrestors, earth switches and at each end of the bus bars.	Clarify	During detail engineering
65	16.4.43.6 -c 314	Equipotential Earthmat: (below the GIS)	Excluded from GIS OEM scope of supply	EPC scope
66	16.4.49 315	Maximum weight of gas in a gas tight section of GIB shall not exceed 400 Kg (for 400 kV)/ 250 Kg (for 220 kV & 132 kV).	The Gas quantities shall be in line with manufacturer standard type tested design suitable form GIS operation at site	As per bid
67	16.4.46.1 316	The arrangement of gas sections or compartments shall be such as to facilitate future extension of any make without any drilling, cutting or welding on the existing equipment. To add equipment, it shall not be necessary to move or dislocate the existing switchgearbays.	We confirm the provision for future extension is available in the offered 400kV/220kV GIS meeting functional requirement of service continuity. We understand that any requirement of design and supply of interface module along with the associated hardware etc. as per tender shall be part of OEM performing future extension. Thus, any interface module supply is excluded from GIS OEM scope.	End Piece (Interface) module with the test link for Future extension shall be in scope of present GIS OEM
68	16.4.52 vi. 318	DOCUMENTATION : vi. GIS Component Drawings	Being intellectual property, manufacturing drawings can not be shared.	As per Bid
69	16.4.52 xxiii. 318	Capacity calculation of EOT crane for GIS hall considering a factor of safety of 5	excluded from GIS OEM scope	EPC scope
70	16.5.1.2 319	Pre insertion resister: 400 kV circuit breakers for line bay (as per the provisions of bid proposal sheet) shall be provided with single step pre insertion closing resistors (wherever the requirement of PIR is explicitly specified so) to limit the switching surges to a value of less than 2.3 p.u for 400kV. PIR contacts should open immediately after closing of main contacts or At least 5 ms prior to opening of main contacts at rated air/gas pressure where the PIR contacts remain closed.	We understand the scheme requirement is one and half breaker type, however there is no mention of Pre insertion resistor (PIR) requirement for bays and their respective quantities. Request to kindly confirm the exact quantity of PIR bays for this requirement	As per BoQ

71	16.5.1.7.4 321	The breaker should be able to withstand all dielectric stresses imposed on it in open condition at lockout pressure continuously (i.e. 2 p.u. power frequency voltage across the breaker continuously)	The breaker should be able to withstand all dielectric stresses imposed on it in open condition at lockout pressure continuously (i.e. 2 p.u. power frequency voltage across the breaker for a specified period of time)	As per Bid
72	16.5.1.10 325	After completion of site pre-commissioning test, 03 nos. travel transducer shall be handed over to AEGCL.	Excluded from GIS OEM scope of supply	OEM/EPC scope
73	16.5.1.14.2.19 326	DISCONNECTORS (ISOLATORS) The mechanical endurance class shall be M2 as per IEC for 400kV, 220 kV and 132kV disconnectors. Electrical endurance class shall be E2.	Mechanical endurance class shall be M2. however, electrical endurance class E2 is not applicable for disconnector switch and also not mentioned in GTP.	As per type tested design
74	16.5.1.14.2.22 326	The degree of protection for the Drive Mechanism box of disconnector shall be IP55.	Considering Indoor requirement, IP4X class shall be sufficient. Please accept the same.	As per Bid
75	16.5.1.15.10 327	The safety grounding switches shall conform to the requirements of IEC- 62271- 102 and shall have electrical endurance class: E2 & shall have mechanical endurance class M2 for 400 kV/220/132 kV voltage level..	Mechanical endurance class shall be M2. however, electrical endurance class shall be E0 for maintenance earth switch in line with IEC and type test report.	As per type tested design
76	16.5.1.15.15 327	The degree of protection of the Drive Mechanism box of maintenance earth switch shall be IP55.	Considering Indoor requirement, IP4X class shall be sufficient. Please accept the same.	As per Bid
77	16.5.1.13 328	HIGH SPEED MAKE PROOF GROUNDING SWITCHES These shall confirm to class F and electrical endurance class E2 and mechanical endurance class M2.	Electrical endurance class shall be E1 and mechanical endurance class M1 for high speed earth switch in line with IEC and type test report which is in line with tender GTP.	As per type tested design
78	16.5.1.17.2 330	VOLTAGE TRANSFORMERS PT shall be provided with isolating link through external operation for the purpose of high voltage testing of GIS.	Please note, we are offering VT with manual IID. Request to accept the same.	Motorised disconnector is required
79	16.5.1.15 331	Insulation co-ordination and selection of surge arrestor	Excluded from GIS OEM scope of supply	OEM/EPC scope
80	16.5.1.22.2.1 335	Local Control cubicle shall be free standing, floor mounting type (Standalone). Bay mounted LCCs are not accepted.	Considering the overall compactness of the offering the 220kV GIS LCC shall be bay mounted type	LCC shall be standalone
81	16.5.1.22.2.1 336	Minimum degree of protection of enclosure of LCC shall be IP55	Considering Indoor requirement, IP4X class shall be sufficient. Please accept the same.	As per Bid
82	16.5.1.23.1 336	The core insulation and outer sheath of cable shall be of halogen-free special polymer.	Request to accept FRLS cables for cabling of LCC panel and GIS equipments.	As per Bid
83	16.11.9 345	Cost of the raised platform for temporary storage is deemed to be included in overall cost. The raised platform needs to be made ready before arrival of GIS equipment at site. The contractor may use the available storage areas at site with permission of site in charge.	Shall be in the Civil contractor scope, Not in GIS OEM scope	EPC scope
84	16.1 344	All transport packages containing critical units viz Circuit breakers and Voltage transformers shall be provided with sufficient number of impact recorders (on returnable basis) during transportation to measure the magnitude and duration of the impact in all three directions. In case of electronic impact recorder, the recording shall commence in the factory and must continue till the units reach site. The data of electronic impact recorders shall be downloaded at site and a soft copy of it shall be handed over to Engineer	GIS modules are rigidly build and does not gets affected by transportation vibrations. Large modules are shipped by splitting into small parts to reduce mechanical stress during transport. However, mechanical type shock indicators shall be provided for critical items like CB, CT, VT. Request your acceptance on same.	As per Bid
85	16.13 347	Power frequency tests for the completed GIS at site shall be possible without removing the voltage transformers. The power frequency test voltage at site shall be 80% of the factory test voltage for 1 min at 100Hz.	Please note, during HV test at site voltage transformers shall be disconnected.	Confirmed
86	16.16.7 349	Special Tools	Special tools shall be quoted as per BOQ.	As per BoQ

87	16.16.7 349	16.16 TESTING & MAINTENACE EQUIPMENT	Excluded from GIS OEM scope of supply	OEM/EPC scope
88		220kV GIS MANADATORY SPARES	Spares are given in PRICE SCHEDULE.Hence spares are not considered for this project.	As per BoQ
89	356	Training	Site Training shall be given by site engineer during ETC activity. No factory training is envisaged. Any expenses like food, lodging, boarding, travel of trainees etc are excluded from GIS OEM scope.	During project implementation
90	-	VT parameter	Kind share complete VT parameters for both 220kV and 400kV Substations.	Refer Chapter 2 of Volume II "Information to Bidders"
91	245kV Gas Insulated Switchgear	3- Ø 220 kV, 3150 A, 50 kA-3 sec, metal enclosed SF6 Gas Insulated Switchgear - 500MVA Transformer bay Module as per technical specification	We understand the incoming power to 220kV ICTs are coming from 500MVA, 3-Ph 400/220/33kV Autotransformers. From calculation, we can arrive at current requirement for LV side(220kV) of this transformer bay is ~1313A/phase which is very less as compare to 3150A. Looking at the future extension requirement, busbar current of 3150A with Transformer feeder and Line feeders of 1600/2500A at 40 °C can be sufficient. Request your confirmation on same.	As per Bid and BoQ. Rating of GIS modules shall be not be less than that specified in Bid/BoQ
92	Section III, Bid Data Sheet (BDS), ITB 2.5.1	JV not allowed	JV may be allowed	Refer to Addendum-I of the bid documents
93	Tenderer's Experience 4.2.1 (a) Contracts of similar size and nature (pg 33)	PART A (For 400/220kV GIS) : The tenderer must have designed, supplied, erected, tested and commissioned including Civil works complete atleast one (1) no. GIS of 400 kV or above voltage class. The above credential shall be from any state/central power utility and the same should have been in successful operation for at least one (1) year within last 12 years on the originally scheduled date of bid opening	PART A (For 400/220kV GIS) : The tenderer must have designed, supplied, erected, tested and commissioned including Civil works complete atleast one (1) no. GIS/AIS of 400 kV or above voltage class. The above credential shall be from any state/central power utility and the same should have been in successful operation for at least one (1) year within last 12 years on the originally scheduled date of bid opening	Refer to Addendum-I of the bid documents
94	4.2.2 (b) Average Annual Turnover (pg 39)	Minimum average annual turnover of Rs 367 Crore calculated as total certified payments received for contracts in progress or completed within the last 5 years	Minimum average annual turnover of Rs 250 Crore calculated as total certified payments received for contracts in progress or completed within the last 5 years. (Reference: Typically the requirement is set at 50% of the estimated project cost, in line with earlier tenders.)	Refer to Addendum-I of the bid documents
95	ITB Clause 2.5.1	JV not allowed	Reconsider the provision and allow eligible bidders to participate through JV/consortium arrangement	Refer to Addendum-I of the bid documents
96	ITB Clause 2.5.1	JV not allowed	JV may be allowed (Reference: For the Project 400 kV Sarusajai upgradation, JV was allowed)	Refer to Addendum-I of the bid documents

97	4.2.1 (C) - I Manufacturers/Subcontractor page 35 of 151	The manufacturer should have designed, supplied, erected, tested and commissioned on supply cum erection basis at least 3 (three) nos. GIS installations of 400kV or above voltage level in India during last 7(seven) years having minimum 5 (five) nos. complete GIS Bays and which should be under satisfactory operation for at least 1 (one) year as on the originally schedule date of tender opening (Certificate of original customer to be submitted).	As GIS OEM responsibility is Supply+ Supervision hence we request you to kindly amend this clause accordingly. (This amendment already made in Rangia pkg & the copy of same we have enclosed for your kind reference. <u>REQUEST FOR AMENDMENT -</u> The manufacturer should have designed, supplied, erected, tested and commissioned on supply cum supervision (erection, testing and commissioning) at least 3 (three) nos. GIS installations of 400kV or above voltage level in India during last 7(seven) years having minimum 5 (five) nos. complete GIS Bays and which should be under satisfactory operation for at least 1 (one) year as on the originally schedule date of tender opening (Certificate of original customer to be submitted).	Refer to Addendum-I of the bid documents
98	4.2.1 (C) - V Manufacturers/Subcontractor page 36 of 149	The Tenderer shall furnish performance guarantee for an amount of 20% of the ex-works cost of GIS equipment(s) for a period of five (5) years after completion of the defect liability period.	Being the product is established from long hence we request you to kindly remove this clause.	Refer to Addendum-I of the bid documents
99	BOQ_84589 Spare part requirement	-	We would like to inform that Spare part requirement is not mentioned in BPS. In case it is required request you to please share the list.	As per BoQ
100	BOQ_84589 SR.NO 14 Special tools	-	We understood that Testing & Maintenance Equipment as mentioned under Sr. No. 14 of the BOQ is to be supplied. Further, testing & maintenance equipment list as mentioned under Sr. No. 16.14 of TS (Chapter 16) is not required and will not be offered. Kindly confirm.	As per BoQ
101	BOQ_84589 Bus Bar rating		Please note that the bus bar rating for the Rangia extension will be considered as per the existing GIS bus 4000A. Kindly confirm.	As per BoQ
102	BOQ_84589 SR.No 12 CSD		Please note that the CSD for the line bay is not mentioned. However mention for the TIE bay. Kindly confirm the scope of supply Kindly confirm.	As per BoQ
103	Khumtai 400kV SLD-Model VT		Please note that, as per the received SLD, the CVT is shown at the bus bar. However, we will provide the IVT. Kindly confirm.	Confirmed

104	TECHNICAL SPECIFICATION FOR GIS CT VT data	-	Please note that, for 245kv GIS extension, we will consider the CT ratio as per existing GIS Also, for 400kv substation in the specification only CT ratio and Class is mentioned. However, other CT parameters are not mentioned. So we will consider it as per CT feasibility. Below ratio we will consider Line feeder bay module-3000-2000-1000/1A, (0.2S-PX-PX-PX-PX PX) ICT bay module-2000-1000-500A/1, (0.2S-PX-PX-PX-PX-PX) 6-core Bus Reactor Bay-2000-1000-500/1A, (0.2S-PX-PX-PX-PX PX) 6-core Tie Bay module- 4000-3000-2000-1000/1A, (0.2S-PX-PX-PX-PX-PX) 6-core The GIS OEM shall submit the detailed CT and VT parameters in the SLD. The GIS OEM can comply only with the specified parameters subject to design feasibility. Any changes to the specified parameters shall be subject to design feasibility and may have cost implications, if applicable. Kindly confirm.	Refer Chapter 2 of Volume II "Information to Bidders"
105	TECHNICAL SPECIFICATION FOR GIS C.I 16.4.8 Page no 291/939 Elbow	Single or double mitered elbows shall be used with bus duct depending on mechanical stress.	The GIS OEM has a standard Design which type tested and supplied to numerous projects, including AEGCL. Also, the elbow design is casted type. Hence, the same type-tested design shall be used for this project. Please accept as per the type-tested design.	As per type tested design
106	TECHNICAL SPECIFICATION FOR GIS C.I 16.4.14 Page no 293/939 Stroboscopic	Stroboscopic port shall also be provided.	Please note that the We will provide the Boroscope against this Model FLIR VS80. if there is any specification then kindly provide the same. Kindly confirm.	During detail engineering
107	TECHNICAL SPECIFICATION FOR GIS C.I 16.4.48 Page no 299/939 UHF Sensor	However adequacy of number of sensors and their location shall be verified at site as per recommendations of above CIGRE Document No. 654. In case during site testing, additional UHF sensors are required, the same shall also be supplied & installed to complete the technical requirement.	The UHF sensor location and quantities are determined during the detail engineering stage. And UHF PD test will be done at the factory. Since the sensor is already technically verified during the design and testing stages, there is no need for additional sensors at site. Kindly accept the same.	During detail engineering

108	TECHNICAL SPECIFICATION FOR GIS C.I 16.4.4.49 9) Page no 300/939 GIB	GIS manufacturer as per their design shall preferably use maximum three standard straight horizontal outdoor bus duct lengths for entire GIS installation to optimize the spare requirement.	We would like to inform you that, the GIB layout is governed by many factors such as site condition, Gas to Air Bushing location, GIS OEM design, clearances etc. Hence keeping the GIB types to three is not possible. We shall use least number of types as possible for GIB layout. we cannot apply using of maximum three standard straight horizontal outdoor bus duct lengths, but we will try to reduce and optimize the GIB type during the detail engineering stage Kindly accept the same.	During detail engineering
109	TECHNICAL SPECIFICATION FOR GIS C.I 16.5.15 Page no 300/939 PIR requirement	Pre insertion resister: 400 kV circuit breakers for line bay (as per the provisions of bid proposal sheet) shall be provided with single step pre insertion closing resistors (wherever the requirement of PIR is explicitly specified so) to limit the switching surges to a value of less than 2.3 p.u for 400kV.	Please note that, as per the received BOQ and SLD, the PIR requirement is not mentioned; the same shall not be considered in the GIS scope. Also, CSD is considered for the transformer bay & Tie bay module as mentioned in the BOQ for the AGIA substation. & for the TIE bay with CSD for the RANGIA substation. Kindly confirm.	As per BoQ
110	TECHNICAL SPECIFICATION FOR GIS C.I 16.4.4.52 XXV) Page no 302/939 Additional CB Data	xxv. Additional CB data to be furnished during detailed engineering : a) Design data on capabilities of circuit breakers in terms of time and number of operations at duties ranging from 100 % fault currents to load currents of the lowest possible value without requiring any maintenance or checks. b) Curves supported by test data indicating the opening time under close open operation with combined variation of trip coil voltage and hydraulic pressure. c) Contact Travel: Operating mechanism operating shaft travel and contact overlap of Circuit Breaker to be provided	Please note that the CB is type-tested and type test report will submit during detail engineering. All data will be covered in the type test report. Kindly accept.	As per type tested design
111	TECHNICAL SPECIFICATION FOR GIS C.I 16.5.1.22.2.1 Page no 319/939 IP 55	Minimum degree of protection of enclosure of LCC shall be IP55 The mechanism shall be housed in a dust proof cabinet and shall have IP: 55 degree of protection.	We would like to inform you that, As per the received documentation we understand that the present scope GIS will be placed in inside GIS hall. The indoor GIS won't be subject to harsh environmental conditions thus we request you to kindly consider IP 44 Rating for OM box and IP 42 for LCC. Kindly accept the same.,	As per Bid
112	TECHNICAL SPECIFICATION FOR GIS C.I 16.5.1.14.2.19 Page no 310/939 Endurance Class DS	The mechanical endurance class shall be M2 as per IEC for 400kV, 220 kV and 132kV disconnectors. Electrical endurance class shall be E2.	The disconnecter has mechanical endurance class of M2 and electrical endurance class is not applicable. Kindly accept the same.	As per type tested design
113	TECHNICAL SPECIFICATION FOR GIS C.I 16.5.1.15.10 Page no 311/939 Endurance Class ES	The safety grounding switches shall conform to the requirements of IEC- 62271- 102 and shall have electrical endurance class: E2 & shall have mechanical endurance class M2 for 400 kV/220/132 kV voltage level..	We would like to inform you that, Our Maintenance earthing switch is type test for electrical endurance class of E0 as per IEC 62271-102. Kindly accept the same.	As per type tested design

114	TECHNICAL SPECIFICATION FOR GIS C.I 16.5.1.13 Page no 312/939 Endurance Class HES	These shall confirm to class F and electrical endurance class E2 and mechanical endurance class M2.	We would like to inform you that our fast-acting earthing switch is type-tested for Class B electrical endurance class E1 & mechanical endurance class M1 as per IEC 62271-102. Kindly accept the same.	As per type tested design
115	TECHNICAL SPECIFICATION FOR GIS C.I 16.7.6 Page no 326/939	The scope of such a design review shall at least include the following: 24. Proper Interfacing of High voltage test bushing. 25. TEV calculation for proper designing of insulators and bushings. 26. Ferro Resonance test report for GIS VT 27. Calculation of thermal expansion due to temperature rise in GIS.	The GIS offered is fully type tested and is compliant with the IEC requirements, hence additional calculations and design review is not envisaged.	During detailed engineering
116	General Welded Enclosure	-	We Would like to inform you that, some of our component such as CB, Main bus, GIB shall be applied with welded enclosure. It was type tested as per IEC for welded enclosure, hence re type test is not envisaged. Kindly accept the type tested design.	As per type tested design
117	General Shutdown	-	During extension of GIS, either one busbar or both the busbar need to take shutdown depending on the existing GIS gas single line diagram. Kindly confirm the same.	As per Tender
118	General Drawings	-	Please note that the as-per received tender documents SLD & overall layout, have been received. However, the 245 kV substation section view of Bay is required to ensure the busbar height and equipment placement. Kindly provide the drawings.	During detail engineering
119	18.07 BOQ-13.04	245kV, 50kA for 3 sec, SF6 Gas Insulated Bus Duct (GIB) single phase from respective GIS bay module up to SF6 to Air bushings	There is an discrepancy in BOQ & Chapter 2 of ITB where is GIB has to be considered from GIS Bay modules to Outer edge of GIS hall & in BOQ GIB has to be considered from GIS Bay modules to SF6 to Air bushings. Kindly confirm which one to be followed.	As per BoQ
120	SLD BOQ-12.07	400kV, 63kA for 3 sec, SF6 Gas Insulated Bus Duct (GIB) single phase from respective GIS bay module up to SF6 to Air bushings	There is an discrepancy in BOQ & Chapter 2 of ITB where is GIB has to be considered from GIS Bay modules to Outer edge of GIS hall & in BOQ GIB has to be considered from GIS Bay modules to SF6 to Air bushings. Kindly confirm which one to be followed.	As per BoQ
121	SLD BOQ 13.02	3- Ø 220 kV, 3150 A, 50 kA-3 sec, metal enclosed SF6 Gas Insulated Switchgear - Bus bar Module each enclosed in bus bar enclosures running along the length of the switchgear to interconnect each of the circuit breaker bay modules in Double Bus Bar configuration as per technical specification alongwith Extension module with all necessary arrangements for extension of the GIS in Double Main configuration.q	Being an Extension project if Shutdown shall be required for performing extension then same shall be provided by AEGCL	As per Tender

122	GIS Technical specification CHAPTER 2: INFORMATION TO BIDDERS (ITB) , 2.6.12.1 400kV GIS- a)	enclosed bus bar of 420kV, each set comprising of the following:- i. Three (3) individual bus bars enclosures running across the length of the switchgear to interconnect each of the circuit breaker bay modules in one and a half breaker bus system ii. One (1) number 3-phase, single pole 4000A, group operated isolator. switches, complete with manual and motor driven operating mechanisms. (Exact Number shall be as per OEM Type Tested Design) iii. One (1) number 3-phase, single pole group operated safety grounding switches, complete with manual and motor driven operating mechanisms. (Exact Number shall be as per OEM Type Tested Design) iv. Three (3) numbers 1-phase Potential Transformers with Isolating Link	For isolation purpose of Voltage Transformer during HV Test, motorised disconnectors as well as Potential Transformers with Isolating Link both are mentioned in given reference clause. In order to fulfill the purpose, Potential Transformers with manual Isolating Link will be sufficient. There will not be any requirement of motorised disconnectors. Kindly provide confirmation on same.	Motorised disconnector is required
123	GIS Technical specification CHAPTER 2: INFORMATION TO BIDDERS (ITB) , 2.6.12.1 220kV GIS- a)	a) Set of 3-single(isolated) phase/Three phase, 3150A, 50kA for 3 second, SF6 gas- insulated metal enclosed bus bar of 245kV, each set comprising of the following:- i. Busbars enclosures running across the length of the switchgear to interconnect each of the circuit breaker bay modules in Double Busbar system. ii. One (1) number 3-phase, 3150A, group operated isolator switches, complete with manual and motor driven operating mechanisms. iii. One (1) number 3-phase, single pole group operated safety grounding switches, complete with manual and motor driven operating mechanisms.	We are already providing Bus isolators as a part of Transformer bays hence same shall be quoted against the line item of Transformer bays.	Confirmed
124	GIS Technical specification CHAPTER 2: INFORMATION TO BIDDERS (ITB) , 2.6 400kV Gas Insulated Switchgear	1. Three (3) numbers 1-phase, 1600-800/1A, (0.2S-PX-PX-PX-PX), 6-core, multi ratio, current transformers duly distributed on both side of circuit breaker. (LV side of 500MVA) with minimum knee point voltage 1:2 of CT ratio or higher.	Considering compactness of GIS we request your acceptance on minimum knee point voltage 1:1 of CT ratio.	As per Bid
125	GIS Technical specification	1. 245kV, 50kA for 3 sec, SF6 to Air Bushing along with termination module & support structure for outdoor connections to connect GIS with 245kV side of Power transformer and overhead lines. 2. 400kV, 63kA for 3 sec, SF6 to Air Bushing along with termination module & support structure for outdoor connections to connect GIS with 400kV side of Power transformer, bus reactors and overhead lines.	Terminal connector is excluded from GIS OEM scope of supply.	EPC scope
126	GIS Technical specification	Testing and Maintenance Equipment as per BPS	Testing and Maintenance Equipment are excluded from GIS OEM scope of supply	EPC/OEM scope
127	GIS Technical specification 16.4.3	The switchgear, which shall be of modular design, shall have complete phase isolation.	As mentioned in CHAPTER 2: INFORMATION TO BIDDERS (ITB) , 2.6.12.1 220kV GIS- a): Set of 3-single(isolated) phase/ Three phase , 3150A, 50kA for 3 second, SF6 gas- insulated metal enclosed bus bar of 245kV, Hence, for 220kV GIS we are following three phase encapsulated busbar design. Other compartments of GIS shall be of isolated phase.	Confirmed

128	GIS Technical specification 16.4.9	Continuous bus lengths without gas segregation shall not be acceptable for any voltage level.	Please note that, proposed busbar design is passive. We meet the requirement of service continuity, maintenance & repair without provision of any barrier in busbar. In addition to that by putting additional gas compartment/ barrier in busbar we are indirectly increasing gas leakage points in GIS. This type of passive non segregated busbar design is type tested as per IEC 62271-203 and accepted by various state & central utilities. hence we request your acceptance on this design.	As per BID
129	GIS Technical specification 16.4.7	100 micro-meter or smaller sintered stainless-steel particle filtered disc shall be provided in gas filling port.	Gas filling shall be done using particle filter, hence we do not envisage such filter. However separate filter unit can be used with supplied filling ports during gas handling in future.	Confirmed
130	QR part 3	Control and Relay Panel and Substation Automation System including RTU / BCU of 220KV Voltage class The manufacturer must have designed, manufactured; type tested, which are in successful operation for at least 3 (three) years during last 7(seven) years as on the date of bid opening. The bidder should list such works executed to substantiate the requirement of this Clause. ii. The manufacturer must have well established testing (including High Voltage Testing) & Service facility in India or an authorized agent in India to perform these activities,	Kindly clarify in case EPC is no a manufacturer of IED and EPC bidder take authorization from IED Manufacturer in India who have the required qualification criteria as mentioned, whether it will satisfy the requirement or not	As per Tender
131	8. Time for Commencement and Completion 8.1	8.1 The Contractor shall commence work on the Facilities within 28 (Twenty Eight) days from the Notice to Proceed which will be issued from Employer upon effectiveness of contract,	We request AEGCL looking into the volume of dismantling and commissioning of new 220/132KV GIS substation to increase the project timeline to 36 Months	Project Completion Period is 24 Month
132	General query	Approved make list	As there is no approved make list in the tender document, it will be difficult to consider which vendor to select for respective items also the approval time will be high in case a new vendor is introduced during the engineering and approval process. Thus we request AEGCL to share a list of vendors and suppliers to be considered for the package.	AEGCL does not have a vendor/manufaturer list
133	General query	Price variation clause	We could not find any PV formula for any item in the document. Considering the volatility in market, we request AEGCL to provide PV based on IEEMA for the below mentioned items 1. Power Transformer 2. EHV & LT Cables 3. GIS 4. Civil works - Reinforced concrete, Cement and building structure items 5. Steel items including tower and gantry structure	As per Tender

134	Scope of supply of Power Transformer (ii) Dynamic Effect of Short Circuit:	For 400 kV Class Auto transformer Bidder/Manufacturer should have successfully carried out Dynamic Short Circuit test on 315MVA or above rating 400/220/33kV or 400/230/33kV, 3- Phase Auto transformer as on the originally scheduled date of bid opening and shall enclose the relevant Test Report/certificate along with bid. In case bidder/manufacturer has not successfully tested 315MVA or above rating 400/220/33kV or 400/230/33kV, 3-Phase Auto transformer for Dynamic Short Circuit test, their bid shall be considered technically non responsive. The offered transformer should comply the requirement of similarity clause specified in IS 2026 (PART 5) / IEC 60076-5 with respect to short circuit tested transformer. Further, design review of offered 400kV Class Auto transformer shall be carried out based on the design of short circuit tested 315MVA or above rating 400/220/33kV or 400/230/33kV, 3-Phase Auto transformer.	Kindly confirm the below points 1. If bidder proposes Dynamic short circuit calculation at bidding stage complying with CEA guidelines for similar Transformer and the final test report shall be submitted before despatch. Will be acceptable to AEGCL. 2. Kindly also confirm the validity of report which is acceptable to AEGCL for Dynamic short circuit test requirement of 400KV Class Auto Transformer	As per Bid
135	Transmission line scope of work SCOPE OF WORK	Associated transmission line works, including survey, design, tower foundations, towers, conductors, OPGW/earth wire, insulators, hardware fittings, stringing, line termination and commissioning of new/modified transmission lines.	Kindly confirm as we understand that there is no Transmission line scope in this package.	Confirmed
136	Transmission line scope of work 2.7 Right of Way for Transmission Lines:	2.7.4. For obtaining clearances from concerned departments and persuasion with the land owners to resolve the Right of Way issues are the responsibility of the Contractor. AEGCL will provide necessary assistance in obtaining aforesaid clearances from Government authorities, if required. For obtaining the clearances for Road, Railway, Power line crossings, PTCC clearance etc the Contractor shall be responsible for preparation and submission of requisite	We request AEGCL to remove any ROW related issues/Roads/Railway/power line/PTCC Clearance along with approvals from EPC bidders scope of work. The same shall be undertaken by AEGCL, EPC bidder shall support with documentation in his regard Also, we understand that this is not applicable for this package, kindly confirm	As per Tender
137	Access road 2.7.6.	2.7.6. Access roads to the work site shall be arranged by the contractor at his cost. All necessary compensation in this respect shall be borne by the Contractor.	EPC bidder shall quote as per line items mentioned in the BOQ, any other items which if required for getting material at site or completion of the job and is not a part of BOQ, those items shall be payable as per actuals.	As per Tender
138	Transmission line scope of work Right of Way for Transmission Lines:	2.7.3. Any right of way that may be required for execution of transmission line shall be arranged by the Contractor in favour of AEGCL.	We understand that there is no Transmission line scope in this tender however we request AEGCL to remove any ROW related issues/Roads/Railway/power line/PTCC Clearance along with approvals from EPC bidders scope in any case if it exists The same shall be undertaken by AEGCL, EPC bidder shall support with documentation in his regard . Also, we understand that this is not applicable for this package, kindly confirm	As per Tender
139	Approvals from all regulatory authority 7.17	7.1.7 The Contractor shall be responsible for compliance of all contractual liabilities which includes financial, legal and administrative issues as required in solving Right of Way during execution of the lines.	We request AEGCL to remove any ROW related issues/Roads/Railway/power line/PTCC Clearance along with approvals from EPC bidders scope of work. The same shall be undertaken by AEGCL, EPC bidder shall support with documentation in his regard	As per Tender

140	Loasoning and approval 2.7.8	The Contractor shall make all required liaisons and accompany the concerned Revenue Authority for assessment of affected properties (both land and zirat) and shall take help of other Departments like PWD, Agriculture, Veterinary, Horticultures etc wherever deemed necessary for working out the compensation amount. For that purpose, the notification issued by the Govt of Assam No.PEL.219/2015/91dated10/03/2017 shall be strictly followed in conjunction with the Electricity Act 2003, The Telegraph Act 1885 and other relevant State /Central Acts. The contractor shall be liable for giving all assistance to concerned District Administration for preparation of valuation reports, estimates, provisional notice, compensation receipts and any other documents as per standard GOA or AEGCL formats. The contractor shall also make all necessary arrangements for joint survey of the land and zirat assessment with concerned officials of District administration, officials of Govt. of Assam and officials of AEGCL	We request AEGCL to remove any liasoning and other regulatory level approvals work from from EPC bidders scope of work. Also, we understand that this is not applicable for this package, kindly confirm	As per Tender
141	Transmisison line approval 2.7.13	2.7.13 The Acquisition of land for Sub- Stations shall be the sole responsibility of AEGCL. Whereas the Contractor shall be responsible for securing the RoW for transmission line works, AEGCL shall assist the Contractor for getting clearances from Railway, NHAI, Forest, Water, and other Govt./Statutory bodies. All statutory fees for getting clearance shall be to AEGCL's account	We request AEGCL to remove any ROW related issues/Roads/Railway/power line/PTCC Clerance along with approvals from EPC bidders scope of work. The same shall be undertaken by AEGCL , EPC bidder shall support with documentation in his regard	As per Tender
142	Approval and ROW case 2.7.14	For settlement of ROW for private lands (including private water bodies), the clearances shall be extracted by the contractor based on the RoW notified by the Government. The land compensation amount shall be settled by the contractor through district revenue officials based on relevant provision of the GOA guidelines and as per the mechanism followed by district administration for assessment/fixation of land compensation. However, the compensation amount will be paid by AEGCL directly to the landowners on submission of Original award statement by the contractor to AEGCL against such land, duly assessed and signed by the concerned officials of District Revenue Administration. The acknowledgement for receipt of the amount by the landowner shall be through Non-Judicial stamp paper.	We request AEGCL to remove any ROW related issues/Roads/Railway/power line/PTCC Clerance along with approvals from EPC bidders scope of work. The same shall be undertaken by AEGCL , EPC bidder shall support with documentation in his regard	As per Tender
143	compensation on account of crop damage 2.7.15	2.7.15 For zirat compensation on account of crop damage, plantation damage, tree cutting etc the assessment shall be done jointly by the contractor and AEGCL officials in coordination with the district/revenue officials. Based on this assessment, the zirat payable to the beneficiaries shall be fixed and the same shall be paid to the beneficiaries by the contractor through district administration. The contractor shall then submit the Zirat bills duly endorsed by the concerned revenue official to AEGCL for reimbursement. The reimbursement of the compensation shall be made by the AEGCL within 30(thirty) working days from the date of submission of the bills.	We request AEGCL to kindly remove all the compensation related scope from EPC bidders scope. The same shall be undertaken by AEGCL only at their end. Also, we understand that this is not applicable for this package, kindly confirm	As per Tender

144	Statutory clearance 2.7.18	2.7.18 Statutory Clearances: It is the sole responsibility of the contractor to follow the standard clearances mentioned in the Indian Electricity Rules 1956 while execution of any works related to construction and energization of a transmission line. The contractor shall be responsible for obtaining documents/drawings/designs/maps etc making liaisons with local governmental bodies and making payments to concerned offices for obtaining approvals against statutory clearances. The contractor shall make themselves properly acquainted with all the prevalent governmental guidelines/notifications/regulations/documentary and monetary requirements as well as official procedures well in advance for ensuring no delay in work progress. AEGCL shall reimburse the amount incurred by the contractor while paying for statutory fees on submission of valid documentary evidences. The statutory clearances for which approvals are to be obtained are mentioned below: (i) PTCC (ii) Railways (iii) Airport Authorities (iv) Electrical Inspector (v) NHAI (vi) Any other clearances as deemed necessary Fees for Compensatory Afforestation, Forest Rights, etc shall be paid directly by AEGCL	We request AEGCL to kindly remove all the Statutory clearance related scope from EPC bidders scope. The same shall be undertaken by AEGCL only at their end. Also, we understand that this is not applicable for this package, kindly confirm	As per Tender
145	Soil Investigation Report	Soil investigation	We understand that the provided soil report is binding to the EPC Bidder and all engineering calculations and design will be in line with the report, Any deviation from the same during detail engineering shall be compensated both with time and commercial implications if it arises.	As per Tender and BoQ
146	Trivector Meter 14.14	14.14 RECORDING METERS (ABT TRIVECTOR METERS): 14.14.1 General a) All meters shall be housed in dust proof, moisture resistant, black finished cases and shall be suitable for tropical use. They shall be accurately adjusted and calibrated at works and shall have means of calibration, check and adjustment at site. b) All these instruments and meters shall be flush mounted type and back connected, suitable for front panel mounting. c) The ABT meters shall be SAMAST compatible as per specification given in subsequent chapter.	Kindly provide make and model of ABT Meter which is accepted in AEGCL. Also provide input for consideration of Main & Check Meter	During detail engineering
147	CRP & SAS 14.16.6 Circuit Breaker Protection	a) LOCAL BREAKER BACK-UP PROTECTION SCHEME shall (i). Be triple pole type. (ii). Have an operating time of less than 15 milli seconds (iii). Have a resetting time of less than 15 milli seconds (iv). Have three over current elements	LBB shall be part of main bus bar protection., we will not provide separate LBB relay . Kindly provide acceptance on he same	Confirmed

148	CRP & SAS 14.23 TIME SYNCHRONISATION EQUIPMENT:	14.23 TIME SYNCHRONISATION EQUIPMENT: - The equipment must be Type tested for Shock, Vibration, Dry heat, Radiated Emission, Electromagnetic field immunity, Electrostatic discharge immunity test in a Standard Laboratory. Type test report shall be submitted along with the bid. Type tests shall be more than five years as on opening of this bid. - The equipment shall be compliant to IEC 61850 Protocol. It shall also support the network protocols like NTPv4, SNTP, SNMPv1,2,3, SNMP Trap, SSH2, Ipv6, DHCP, HTTP (S), eMail, FTP, TELNET and Syslog	Time synchronizaton shall be provided through BCU. Separate time sync panel shall not be provided. Pls confirm	As per Bid
149	CRP & SAS SAS integration works	B) SAS Integration Integration of all new CRP's, station auxiliaries to the existing SAS at Khumtai shall be in the scope of the bidder including license upgradation of existing SAS.	Kindly provide the existing make and model of the SAS, bidder shall not provide any hardware components for the proposed bay extension part. Alos, pls confirm the exisying mae and model of SAS.	Hitachi
150	Soil Investigation Report	Soil Investigation Report	Kindly confirm that the Soil Investigation report provided by AEGCL is binding in nature and can be used for design of structures during detail engineering, and its not necessary to conduct soil investigation after receipt of order. In case of any change in soil conditions and bearing capacity values and foundation system changes necessary time and cost shall be compensated by AEGCL.	Design shall be as per soil investigation report submitted
151	Volume II 5.6 (d) &BOQ_4	Type of foundation The following structures shall be supported on pile foundations: 1 Power Transformer foundations 2 Reactor foundations 3 Firewall foundation 4 GIS Building 5 Control Room Building (CRB) 6 Kiosk Building 7 Residential Buildings and Quarters 8 Any other structure specifically identified in the Contract Drawings or directed by AEGCL.	In CL.5.6(d) and BOQ it is specified pile foundation in major structures like buildings, transformer, firewall. If, soil investigation report recommends: Isolated/Mat/Raft/Spread/Open foundations for these structures with improvements, whether we need to follow soil investigation report recommendation or we have to mandatorily adopt pile foundation for structures as defined in Volume II. Kindly confirm.	Pile foundation shall be mandatory for these structures
152	Volume II 5.6 (d) &BOQ_4	Type of foundation The following structures shall be supported on pile foundations: 1 Power Transformer foundations 2 Reactor foundations 3 Firewall foundation 4 GIS Building 5 Control Room Building (CRB) 6 Kiosk Building 7 Residential Buildings and Quarters 8 Any other structure specifically identified in the Contract Drawings or directed by AEGCL.	Pls share Pile Capacity(Compression and lateral capacity to considered for different diameters of pile.	As per Soil report

153	BOQ_84589 BOQ_4, SL no. 6.05 & 6.06	6.05.Construction of Indoor Cable Trench at existing 220kV GIS Building for present and future bays including dismantling of GIS floor and necessary arrangement to keep existing modules dust free 6.06.Construction of Indoor Cable Trench at existing 33kV VCB cum CRB Building including dismantling of floor and other necessary work	As discussed, in pre bid meeting dt 24.09.26. We request AEGCL to descope this BOQ Item from this package, since existing work is under progress and can be executed under that contract. Kindly amend Price schedule accordingly.	As per BOQ
154	Volume II 5.7 (e)	Steel Reinforcement	Reinforcement steel and structural steel is specified as TATA, Steel, SAIL, Jindal, RINL, we need to comply IS Codes for material technical compliance we shall be providing equivalent product confirming IS code requirements, for smooth execution.	As per bid
155	Volume II 5.9 (e)	Boundary wall	Pls share contour map to conclude on retaining structures below boundary wall Is it acceptable to AEGCL. to construct different levels of boundary wall based on NGL without having retaining structures below, pls confirm.	Contour under EPC scope and Height shall be decided during detailed engineering based on profile
156	BOQ_84589 BOQ_4, SL no. 6.08	Approach and Internal Road	Approach road from main gate to near by road shall be constructed provided ROW shall be in scope of AEGCL. Additionally, Kindly confirm whether the main gate entry shall be separate for 400kV GIS as well the approach from near by main road.	Shall be decided during detailed engineering
157	BOQ_84589 BOQ_4, SL no. 2.01	4000 KV GIS cum CRP/DB Building (PEB) along with GIS bay foundations complete on pile foundation [100m x (16+8)m]	The length of building is specified as 100m, can we go for building size optimization based on OEM and other statutory requirements, or is it mandatory to follow 100m length, pls confirm.	The size of the building is final
158	BOQ_84589 BOQ_4, SL no. 5	HVWS with Water reservoir and Pumphouse	Please provide reservoir and Pumphouse Capacity and drawing, whether underground or above ground level to considered, kindly confirm	Shall be as per design and under EPC scope
159	General	Batching plant, labor camp, Fabrication yard	Since the civil works include high volume of concreting, SEIL request permission to establish batching plant, labor camp, Fabrication yard within project premises.	Can be done subject to availability of space within proposed switchyard. In case sufficient space is not available, the Contractor shall arrange the required facilities outside the project premises at its own cost.
160	General	Disposal of Excavated Soil	Kindly confirm excess excavated soil can be disposed within site premises.	As per Bid
161	General	Underground Utilities	Kindly confirm absence of buried cables, earth mat, or underground utilities in proposed area.	Covered in site clearance scope
162	General	Land Availability	As a bidder we wish to know that land will be handed over prior to start of work without any hindrance within 10-15days from receipt of LOA.	Yes
163	General	Hindrance & Time Extension	Delays due to force majeure, rainfall, site issues shall be recorded and eligible for time extension and cost compensation. Kindly confirm.	As per BID
164	General	Use of M-Sand	Kindly confirm use of M-sand is permitted due to non-availability of river sand.	Only River Sand Permitted
165		Construction Power and Water	Bidder understands that M/s AEGCL shall provide a single tap point for Power and Water free of cost within the switchyard. . Kindly Confirm	Under the scope of the successful Bidder
166	General	Site Clearance	Kindly confirm removal of trees, poles and structures (if any) shall be in AEGCL scope.	Covered in site clearance scope

167	General	Right of way	Bidder understands that any clearances/activities w.r.t. a) Forest Clearance and Tree Cutting (as applicable) b) Right of Way c) Railway Clearance (if applicable) d) Unauthorized Construction e) any other site access restrictions shall be in AEGCL scope. Kindly confirm. Any cost incurred w.r.t. the same shall be to AEGCL's Scope. Suitable time extension shall be given to the bidder for such access restrictions/other restrictions. Kindly Confirm.	As per BID
168	Site Visit Observation	Present contract: No piling has been done.	Based on our site visit observation, present existing 220kV Package. Piling is not adopted and for this 400kV package, we shall follow the recommendation of Geo expert as per binding soil report, Kindly confirm	As per soil report and bid
169	Site Visit Observation	Upcoming 400KV Substation: Couple of water bodies and low land area.	Based on our site visit observation, we have observed presece of waterbodies, pls confirm borehole no. at particular place and type of foundation to be considered. Kindly confirm	Bore Hole locations attached
170	Civil Queries	Deemed Acceptance	Kindly insert the following in tender documents as a seperate clause: In case commissioining is delayed by more than 90 days from the scheduled date as notified by the Contractor to the Employer, due to reasons not attributable to Siemens, then it will be considered as deemed commissioned. Consequently, the defect liability period shall start and the final payment due to Contractor (if any) shall become due to the Contractor.	As per Tender
171	Liquidated Damagees	GCC 29.2.1 Liquidated Damages	Kindly add the add the following in the existing clause: Notwithstanding anything above, Payment of such Liquidated Damages shall completely satisfy the Purchaser/Employer as a remedy for delays by Contractor. The contractor shall be under no other liability towards the Purchaser/Employer for delay of works.	As per Tender

172	Additional Clause	Additional Clause on Sales Contract Clause	The Contractor proposes the inclusion of a below mentioned Sales Contract Clause in the Tender documents. 1. If Owner transfers goods (hardware and/ or software and/ or technology as well as corresponding documentation, regardless of the mode of provision) delivered by Contractor or works and services (including all kinds of technical support) performed by Contractor to a third party worldwide, Owner shall comply with all applicable national and international (re-) export control regulations. In any event Owner shall comply with the (re-) export control regulations of the Federal Republic of Germany, of the European Union and of the United States of America. 2. If required to conduct export control checks, Owner, upon request by Contractor, shall promptly provide Contractor with all information pertaining to particular end customer, destination and intended use of goods, works and services provided by Contractor, as well as any export control restrictions existing. 3. Owner shall indemnify and hold harmless Contractor from and against any claim, proceeding, action, fine, loss, cost and damages arising out of or relating to any noncompliance with export control regulations by Owner, and Owner shall compensate Contractor for all losses and expenses resulting thereof, unless such noncompliance was not caused by fault of the Owner. This provision does not imply a change in burden of proof.	As per Tender
173	Payment terms	Payment terms	Kindly include 10% interest free Advance payment against submission of Advance Bank Guarantee (ABG) in the existing payment terms.	Mobilization advance amounting Ten percent (10%) of the total Supply amount shall be released on submission of security in the form of Bank Guarantee for the equivalent amount made out in favour of the AEGCL. The Mobilization Advance will be provided on interest basis. The advance amount will be adjusted at the rate of 10% of the taxable invoice value from each subsequent supply bill till the complete amount of advance is adjusted. The advance payment security may be reduced in proportion to the value of the amount adjusted from the Invoices, as evidenced by delivery documents.

174	GCC	43 Suspension of Works	Please confirm the following: Contractor/ Siemens may suspend performance of its obligations under the Contract if (i) the Customer is in delay with any payment or in providing any payment security required under this Contract for more than 30 days, (ii) the Employer fails to perform those of its obligations necessary for Siemens to provide the Works; or (iii) the Employer otherwise materially breaches the Contract. Further in the event of suspension, the Employer shall become immediately liable to pay Siemens for all parts of the Works already provided. The Employer shall further reimburse Siemens all reasonable additional costs and expenses incurred as a result of such suspension (e.g. payments to subcontractors, cost of waiting time, demobilization and remobilization, etc.). Any contractual dates shall be extended for a reasonable period to overcome the effects of the suspension.	As per Tender
175	GCC	GCC 44 Termination of Contract	Please add the following in the existing clause: The termination of contract shall only happen for a major & substantial breach of contract by Siemens after a reasonable cure period has elapsed and the breach is still not rectified. In the event of termination by Siemens, Siemens shall be entitled to recover from the Customer (i) the Contract Price less any saved or avoided expenditure and (ii) any additional cost and expenses incurred by Siemens due to such termination. Any termination by the Customer shall not affect those parts of the Works already delivered or performed in accordance with the Contract prior to termination. In the event of termination of the Contract in accordance, the Customer shall remain liable to pay Siemens for all parts of the Works already provided prior to termination. The Customer shall be entitled to compensation for the reasonable costs incurred in excess of the Contract Price if it has had the Works completed by a third party.	As Per Tender
176	Additional Clause	BOCWA cess applicability	Please confirm the following: BOCWA Cess @1% shall be deducted only on the service portion and not on the supply portion.	As Per Tender
177	GCC	GCC 14.6.1 Taxes and Duties	Please add the following as a separate clause: In case of change in the rates of any taxes, duties, levies or if new taxes, duties or levies (e.g. GST) are initiated by the Central / State Government / local bodies, then the same will be to the account of Purchaser and shall be reimbursed by Purchaser. Change in judicial interpretation and / or any clarification or amendment made by the relevant authorities shall be construed to be a change in the rate of taxes, duties, levies and / or imposition of new tax, duty or levy.	As Per Tender

178	BDS, Appendix- 5 and Technical Specifications	BDS Performance Guarantees ITB 25.5 © The Bidder shall quote his price conforming to the Performance Guarantee parameters and the acceptable limits as specified in the Technical Specifications.	Kindly confirm: As Performance guarantees tests are not applicable for the sub-station projects, we understand that performance guarantees clauses and Appendix- 5 shall not be applicable for this project.	As Per Tender
179	Additional Clause	Right of way	Contractor shall not be responsible for any of approach road clearances, right of way and other statutory approvals required to taken in the name of Employer .The same shall be in the scope of Employer. Please confirm.	As Per Tender
180	Additional Clause	Additional Clause	Please add the following clause to the contract: The Customer acknowledges that Works on Site may generate and/or uncover hazardous waste which is subject to specific legal or regulatory requirements under applicable laws "hazardous materials" or "hazardous waste". If Contractor discovers hazardous materials (including asbestos), environmentally hazardous substances, geological or geothermal conditions, archaeological findings or any other local environmental conditions which have an adverse effect on the Works, the Customer shall be liable for any required remediation and shall also reimburse Siemens for any reasonable additional costs and expenses. Siemens shall also be entitled to a proportionate extension of time to provide the Works. The Customer shall, at its expense, provide containers complying with all legal and regulatory requirements and shall handle, store and dispose of hazardous waste in accordance with the applicable laws. Contractor shall not be obliged to provide the Works on Site in unhealthy or dangerous surroundings. All the necessary safety and precautionary measures shall be taken by the Customer, at no cost to Siemens, before the Works on Site commence and shall be maintained by the Customer during Siemens' performance of the Works on Site.	As Per Tender
181	Bid volume-II		Please share the following drawings of existing 220 KV switchyard at Khumtai required for estimation i. Existing earthing layout. ii. Existing ERT report. iii. Existing indoor panel arrangement layout. iv. Existing DSLP drawing.	During detail engineering
182	BOQ 3 sl no. 17.01	400kV Columns with peak	Please provide standard structural drawing of 400kV tower.	Under the design scope of the successful Bidder
183	BOQ 3 sl no. 24.02	Lightning protection system (lightning masts 50 metres high, Lightning Spike, shield wire(7/4mm GI Shield wire), down conductors etc.) for complete substation.	Please clarify lightning mast shall be Lattice type or Tubular type.	Lattice type
184	BOQ 4 sl no. 1.02	Site Preparation and Earthfilling with Compaction	Please provide countour survey drawing for estimation.	Under the scope of the successful Bidder
185	BOQ 4 sl no. 1.04	Boundary wall (3 M high) with Retaining wall (The Bidder may quote the price based on the sample drawing provided with the Tender.)	As per the provide drawing we have observed that the boundary wall height is 2100 mm from FGL and filling depth varies from 0 mm to 1500 mm. Please confirm the proposed bounadry wall height and filling depth requirment.	Shall be as per final contour drawing
186	BOQ 3 sl no. 14.07	Rail track for transformer	Please provide the drawing for rail track for transformer	Under the scope of the successful Bidder
187	BOQ 3 sl no. 14.08	Rail track for transformer	We understand the foundation of rail come road to be included in same line item.	Included in transformer foundation item

188	BOQ 3 sl no. 15.01	Erection, testing and commissioning of 125 MVAR, 420KV, 3 Phase, Star with Neutral brought out, ONAN coreless Bus Reactor along with Marshalling Kiosk with accessories etc as per technical specification with 10% spare oil	We understand that rail track for reactor shall also be required for shifting the same. Hence requesting you to please add one line item for rail track for reactor.	As per revised BoQ. Included in foundation item
189	BOQ 4 sl no. 6.14	Switchyard Gate	As per the enclosed drawings we have observed that along with fencing drawing, two types of gate G1 & G2 (for switchyard and fencing) has been provided. Please confirm whether G1 or G2 will be applicable for switchyard gate.	To be decided during detailed engineering
190	Bid volume-II	Pile foundation	As per civil technical specification steel liner to be used for pile foundation. Please clarify whether temporary liner or permanent liner to be used. Also please clarify the length of the steel liner.	To be decided during detailed engineering
191	Bid volume-II	Pile foundation	Please share specific pile foundation drawings for building and transformers.	As per soil report
192	Bid volume-II		As per site visit we understand that yard PCC and gravel spreading to be done for outdoor switchyard. Same is not appearing the BOQ. Request you to please add one separate line item for Yard PCC and gravel spreading.	As per BOQ
193	Bid volume-II		We understand existing GIS is of Siemens make. Request you to please share the following drawings for estimation purpose: i. GIS plan and section drawing ii. GTP iii. Gas SLD iv. Bus duct drawing v. SF6 to air bushing drawing vi. Earthing drawing of GIS vii. Indoor cable trench drawing	During detail engineering
194	Bid volume-II	Site Visit	We understand existing CRP & SAS is of Hitachi make. Request you to please share the following drawings for estimation purpose: i. Panel wise detail drawing ii. Scheme iii. SAS Architecture	During detail engineering
195	Bid Volume 1	Appendix 1 Terms of Payment Supply	Referring to terms of payment of AEGCL for subject package for Supply portion is : i. Progressive Payment: 75% of Total supply invoice value. ii. Remaining 25%:- a. 15% of completion of 50% total erection work, b. 5% on completion and 5% on Operational acceptance certificates. We request to amend payments terms as mentioned below :- i. Interest free Advance 10% in Supply Portion, ii. Interest free Engineering Advance 10%, iii. Progressive 55% of total supply invoice value, iv. Remaining 25%:- a. 15% of completion of 50% total erection work, b. 5% on completion and 5% on Operational acceptance certificates. Please consider.	Refer to Sl. No. 173 of this document.

196	Bid Volume 1	Appendix 1 Terms of Payment Installation	Referring to terms of payment of AEGCL for subject package for Installation portion is : i. Progressive Payment: 90% against of invoice for foundation, erection and civil works. ii. Remaining 10%:- 5% on completion and 5% on Operational acceptance certificates. We request to amend payments terms as mentioned below :- i. Interest free Advance 10% of Installation Portion, ii. Progressive Payment: 80% against of invoice for foundation, erection and civil works. iii. Remaining 10%:- 5% on completion and 5% on Operational acceptance certificates.	Refer to Sl. No. 173 of this document.
197	Bid Volume 1	Appendix 1 Terms of Payment	In payment terms it is mentioned "Subject to availability of fund". Request you to please clarify the same.	As Per Tender
198	Bid Volume 1	Price Adjustment	As per bid document, Price adjustment is not applicable as it is fixed term contract. We like to draw your attention on current market fluctuation due to West Asia crisis. Due to this, prices of Copper, CRGO, Aluminium in international market is volatile. Therefore, we request you to kindly accept PV as per IEEMA for Power Transformer, Conductor, CVT, EHV and Power - Control Cables, Station Transformer, WT BPI, LA, Metal based items and Installation (Erection and Civil).	As Per Tender
199	General	General	For any Statutory clearances and permission required for tree cutting, forest clearance, shutdown permission shall be arranged by AEGCL. Reimbursement for the same shall be done by AEGCL directly. EPC shall provide necessary support only. Kindly confirm.	As Per Tender
200	General Bid volume-I ITB 2.20.1	The Bidder shall furnish a Bid security in the amount of ₹ 5.5 Crores (Rupees Five Crore only) in the form of Bank Guarantee/DD/FIXED DEPOSIT from Nationalised Bank (India) in favour of ASSAM ELECTRICITY GRID CORPORATION LIMITED, AEGCL payable at Guwahati, Assam. The Bid Security must remain valid for forty-five (45) days beyond the original or extended validity period of the bid.	MISMATCH in AMOUNT: Kindly clarify the amount in Words.	Typographical error: The amount in words is clarified to be as Rupees Five Crore Fifty Lakhs only
201	TECHNICAL SPECIFICATION FOR TRANSFORMER C.I 17.3.1.5 Page no 355/939 Capacity and Voltage of the Transformers	Rated Capacity and Voltage of the Transformers as per present requirement of AEGCL: a) 200 MVA – 220/132 KV Auto Transformer b) 80 MVA - 132/33 KV Power Transformer	Please Confirm the required capacity is as per the BOQ only.	As per BoQ
202	C.I 17.13.9.1 Page no 367/939 TECHNICAL SPECIFICATION FOR TRANSFORMER UNDERTAKING	In support of this requirement the bidder shall submit an undertaking in specified format (Annexure C) in the form of affidavit on Rs.100/- stamp paper, duly notarized.	Please confirm whether the duly filled Annexure-C, UNDERTAKING (Page no 405/939) should be submitted with our bid. If yes, please confirm whether this Annexure should be signed by respective OEMs or the bidder.	As per Tender

203	C.I 17.20.0 Page no 377/939 TECHNICAL SPECIFICATION FOR TRANSFORMER Insulating Oil	Insulating oil shall be unused un-inhibited highly refined naphthenic base oil [not containing Polychlorinated Biphenyls (PCBs)], conforming to IEC 60396-2020 & all parameters specified at Annexure – 4(T) (attached).	Please provide Annexure – 4(T) for the parameters.	During Detail Engineering
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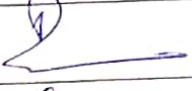
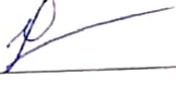
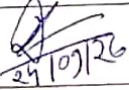
Attendance Sheet

PRE BID MEETING FOR THE WORK "UPGRADATION OF EXISTING 220/132/33KV GIS AT KHUMTAI TO 400KV LEVEL WITH TRANSFORMATION CAPACITY 2 X 500 MVA"

Venue: Conference Hall, Ground Floor, Bijulee Bhawan

Date: 24/09/2026

Time: 12:00 PM

Sl. No	Name and Designation	Organization & Address	Signature
1			
2	Jayashree Dew	AEGCL	
3	Rijumani Barma	AEGCL	Rijumani
4	F.H. HASHMI	AEGCL	
5	PRANTIK SAikia	AEGCL	
6	Ashish Hazanika	AEGCL	
7	Rituparna Ulagan	AEGCL	
8	Himangshu Kanyalga	AEGCL	
9			
10			
11	Dipankar Chakraborty	AGM (Law), AEGCL	 24/09/26
12	Bodanta Kr Dutta	AEGCL	
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