

**CGPISL PRE BID CLARIFICATION FOR NIT NO-CPC-38/2022-23**

SR.NO	Clause no	Customer's requirement	CGPISL Comment/Clarifications	OPTCL Comments
1	1.8	CB Terminal pads shall have silver plating of at least 50 microns thickness. CB terminals shall be Eight hole HV terminal (2 x 4 hole pattern) as per IEC/TR 62271-301	We will provide you CGPISL standard type tested Aluminium terminal pad along with breaker	Accepted. Should be as per type tested design.
2	4.2	All sealing surfaces shall be smooth, straight, and reinforced, if necessary to minimize distortion and to make a tight seal. The operating rod connecting the operating mechanism to the arc chamber (SF6 media) shall have adequate seals, Double -O-ring seals and test holes for leakage test of the internal seal shall be provided on each static joint. The O ring sealing shall have compression set of < 15% in adherence to ASTM D395-16. O rings shall be housed in CNC machined O ring groove.	Our breaker design in type tested with Single O ring, hence double O ring is not applicable for our offered product.	Accepted. Should be as per type tested design.
3	4.7	Sufficient SF6 gas shall be provided to fill all the circuit breakers installed. In addition to this 20% of the total gas requirement per circuit breaker (3 limbs) shall be supplied in separate cylinders as spare requirement.	We will provide you 20% gas in same cylinder with each breaker.	As per TS.
4	7.3	The break time discrepancy between poles shall be $\leq 3$ ms	We will provide you as per IEC 62271-100	As per TS.
5	20	TERMINAL CONNECTORS:	Kindly provide type of terminal connector with respect to breaker rating.	To be finalized during detailed engineering as per site requirement.
6	21.7	Single phasing preventer relay shall be provided for 3 phase motors to provide positive protection against single phasing.	Not applicable for spring operated Breaker	Accepted.
7	23	Technical Requirements for SF6 Circuit Breaker: Phase-to-phase spacing in switchyard	Our breaker design in type tested with 1700mm	As per TS.
8	3.31.3	Electrical Endurance Class as per IEC	Not applicable for 145kV, 245kV and 400kV	Accepted
9		Specification requirement is 33kV 1600A 31.5KA outdoor PCVCB	We have type tested product with 25KA/3Sec	As per TS.

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SIEMENS PRE BID CLARIFICATION FOR NIT NO-CPC-38/2022-23

SR.NO	Clause no	Customer's requirement	Siemens Comment/Clarifications	OPTCL Comments
1	4.1	Auxiliary AC 415 V, 50 Hz, 3Ø, 4 wire, neutral earthed.- Lighting, Heater & Spring Charge Motor	Lighting, Spring Charge Motor & Heater shall be suitable for Single phase AC supply	Purchaser will provide Auxiliary AC 415 V, 50 Hz, 3Ø, 4 wire, neutral earthed for Lighting, Heater & Spring Charge Motor from which single phase supply can be taken.
2	1.3.3	One central control cabinet for each breaker and one control box for each pole with all the required electrical devices mounted therein and the necessary terminal blocks for termination of interpole wiring.	As 145kV breaker is mechanically ganged, one common mechanism shall be provided for all 3 poles whereas in case of 245 and 420 kV one control cabinet for each breaker and one operating mechanism for each pole shall be supplied	Accepted
3	1.8	CB Terminal pads shall have silver plating of at least 50 microns thickness.	The terminal pads shall be made of Aluminium, hence silver plating is not required	Accepted. Should be as per type tested design.
4	8.11	Two (2) nos add-on contacts (2 NC) shall be provided in each DC & AC supply MCB for use in SAS. (For AC & DC supply supervision.)	1NO + 1NC contacts shall be provided	As per TS
5	8.13	A minimum of 20 N/O (52a) & 20 N/C (52b) spare auxiliary switch contacts should be provided.	Auxiliary switch has total 20 NO + 19 NC contacts. Out of these contacts, 10 NO + 10 NC have been considered as spare for Purchaser's use.	As per TS
6	14.4	The ladder should be such that the driving mechanism of all 3 poles are accessible from both front and back sides, if required for CB maintenance.	The driving mechanism is accessible from only side of the circuit breaker.	Back side access is required for maintenance.
7	21.1	All cables for inter-limb wiring and wiring from cubicle to the limbs which are external to the control cubicles shall be armored type.	All cables for inter-limb wiring and wiring from cubicle to the limbs which are external to the control cubicles shall be armored type with 1.5sq mm wiring.	As per TS.
8	21.11	Wiring for all control circuits shall be carried out with 1100 volts grade PVC insulated tinned copper stranded conductors of sizes not smaller than 2.5 sq. mm.	Wiring for all control circuits shall be carried out with 1100 volts grade PVC insulated copper stranded conductors of sizes 2.5 sq. mm.	Accepted
9	23.2.2	Phase to earth clearances for 245kV 2400mm Phase to earth clearances for 145kV 1300mm	We would like to inform that the phase to earth clearance for 245kV breaker is 1900 mm & 145kV is 1250mm. Adequacy of this clearance is proven by the dielectric tests as per IEC 62271-100 successfully withstood by our offered CB.	Accepted as per IEC 60071-1 A1: 2010 subject to valid LI withstand TTR of the same design of CB as proposed.
10	Section 4 1.1.6.m	EMC test	EMC test is not applicable since offered design is not based on/comprising of any major electronic component as a functioning part, which requires electromagnetic compatibility for proper functioning.	Accepted
11	Section 4 1.1.6.p	Critical current tests	Critical current test is not applicable for quoted circuit breaker, as the breaker does not have any critical current.	Accepted
12	Section 4 1.2.2	No sampling is allowed for factory acceptance tests. FAT of 100% of the offered quantity shall be witnessed by OPTCL representative.	We recommend 10% of the inspection of offered quantity.	As per TS

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**ABB TECHNO-COMMERCIAL CLARIFICATIONS**

Sr. No	Clause ref.	Requirement as per Tender	Amendment proposed	Justification	OPTCL Comments
<b>SECTION-I : INSTRUCTIONS TO TENDERER</b>					
1	5	The Purchaser may alter the quantities of materials/equipment at the time of placing orders	The Purchaser may alter the quantities of materials/equipment at the time of placing orders with limit of $\pm 10\%$	There should a cap on limit of variation of the quantities.	As per Tender specification
2	5	Initially the purchaser may place orders for lesser quantity with full freedom to place extension orders for further quantity under similar terms and conditions of the original orders.	Initially the purchaser may place orders for lesser quantity with full freedom to place extension orders for further quantity under similar terms and conditions of the original orders till the original order is under execution.	The extension order shall be issued while the original order is under execution. Extension order issued after execution of original order shall be subject to mutual acceptance from both parties.	As per Tender specification
3	20.a,II,N.B.	In case of extended duration of inspection or non-availability of the return travel ticket, Contractor/supplier/manufacturer shall arrange for the extended stay of the inspecting officer in the Hotel accordingly.	In case of extended duration of inspection or non-availability of the return travel ticket, Contractor/supplier/manufacturer shall arrange for the extended stay of the inspecting officer in the Hotel accordingly however charges for the extended stay shall be borne by OPTCL.	Charges for extended stay shall be borne by OPTCL.	As per Tender specification
4	20.c	At the place of the inspection/testing, for local journey of the inspecting officer between Hotel and inspection/testing site and any other places, Air-conditioned four wheeler vehicle in good condition shall be provided by the contractor/supplier/manufacturer.	At the place of the inspection/testing, for local journey of the inspecting officer between Hotel and inspection/testing site and any other places, Air-conditioned four wheeler vehicle in good condition shall be provided by the contractor/supplier/manufacturer.	Local conveyance from hotel to inspection/testing location only shall be provided. Conveyance to any other location shall not be provided.	As per tender condition
<b>PART-I : SECTION - II : GENERAL TERMS AND CONDITIONS OF CONTRACT [G.T.C.C.]</b>					
5	6	The Supplier on receipt of such notification shall either rectify or replace the defective equipment/material free of cost to the purchaser within 15 days from the date of issue of such notification by the purchaser.	The Supplier on receipt of such notification shall either rectify or replace the defective equipment/material free of cost to the purchaser within <del>15 days</del> mutually agreed time frame from the date of issue of such notification by the purchaser.	The time frame for rectification or replacement of rejected goods shall be mutually agreed by OPTCL & supplier. 15 days is too short to rectify or replace outdoor VCB	As per Tender specification
6	6.a	At its option replace or rectify such defective equipment /materials and recover the extra costs so involved from the supplier plus fifteen percent and/or.	At its option replace or rectify such defective equipment /materials and recover the extra costs so involved from the supplier <del>plus fifteen percent and/or.</del>	Only actual cost incurred shall be recovered.	As per Tender specification
7	13.a	The delivery period shall be reckoned from the date of placing the letter of intent/Purchase order, as may be specified in LOI/Purchase order	The delivery period shall be reckoned from the date of issuing of clear drawing approval or manufacturing clearance, whichever is later.	Delivery period shall be linked to drawing approval or MFC since without the same manufacturing can not be started.	
8	14.II	It will be the sole responsibility of the supplier for loading and unloading of materials both at the factory site and at the destination site/store.	It will be the responsibility of the supplier for loading of materials at the factory site and unloading at the destination site/store shall be done by purchaser.	Unloading at site shall be in OPTCL's scope.	As per Tender specification

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9	18.i	The stores covered by this specification should be guaranteed for satisfactory operation and against defects in design, materials and workmanship for a period of at least 18 [Eighteen] months from the last date of delivery or 12 [Twelve] months from the date of commissioning whichever is earlier.	The stores covered by this specification should be guaranteed for satisfactory operation and against defects in design, materials and workmanship for a period of at least 18 [Eighteen] months from the last date of delivery or 12 [Twelve] months from the date of commissioning whichever is earlier.	The warrantee of equipment shall be linked to delivery or commissioning date of the said equipment only and not with the entire lot.	As per Tender specification
10	18.ii	Equipment/material failed or found defective during the guarantee period shall have to be guaranteed after repair/replacement for a further period of 12 months from the date of commissioning or 18 months from the date of receipt at the store/site after such repair/replacement whichever is earlier. The Bank Guarantee is to be extended accordingly.	Said clause shall be removed	Equipment warrantee shall be the sole remedy. Extended warrantee for repaired/replaced parts shall not be provided.	As per Tender specification
11	19.i	A Composite Bank Guarantee as per the Proforma enclosed at Annexure-VII of the specification for 10% [Ten percent] of the Total Landing cost (Taxable Value plus GST thereon) of the purchase order.....	A Composite Bank Guarantee as per the Proforma enclosed at Annexure-VII of the specification for 5% [Five percent] of the Total Landing cost (Taxable Value plus GST thereon) of the purchase order.....	Bank Guarantee shall be applicable as per Govt of India, office memorandum dtd. 19th November 2020. Copy of the said memorandum is enclosed for ready reference.	As per Tender specification
12	21.A.i	100% taxable value of each consignment with 100% Goods and Services Tax in full as applicable will be paid on receipt of materials in good condition at stores/desired site and verification thereof, subject to furnishing and approval of a. Contract cum Performance Bank Guarantee	100% taxable value of each consignment with 100% Goods and Services Tax in full as applicable will be paid within 30 days on receipt of materials in good condition at stores/desired site and verification thereof, subject to furnishing and approval of a. Contract cum Performance Bank Guarantee	There should be a fixed time frame defined for releasing the payment.	As per Tender condition
13	21.A.i	.....Contract cum Performance Bank Guarantee at the rate of 10% (Ten percent) of Taxable Value plus GST thereon.....	.....Contract cum Performance Bank Guarantee at the rate of 5% (Five percent) of Taxable Value plus GST thereon.....	Bank Guarantee shall be applicable as per Govt of India, office memorandum dtd. 19th November 2020. Copy of the said memorandum is enclosed for ready reference.	As per Tender condition
14	22.ii		Said clause shall be removed	LD/price reduction due to warrantee obligations are not acceptable.	As per Tender condition
15	23	The Supplier shall undertake free replacement of materials damaged or lost, which will be reported by the consignee within 30 days of receipt of the materials at destination without awaiting for the settlement of their claims with the carriers and underwriters	The Supplier shall undertake free replacement of materials damaged or lost, which will be reported by the consignee within 10 working days of receipt of the materials at destination without awaiting for the settlement of their claims with the carriers and underwriters	Any lost or damaged material received shall be intimated to supplier within 10 working days.	As per Tender condition
16	29.i	E-Reverse auction process shall be resorted to and details of the same shall be notified as corrigendum subsequently	Said clause shall be removed	ABB shall not participate in any E-reverse auction	As per Tender condition
17	30.iii	The above rated or higher capacity equipment should have at least 3 (three) years successful performance from the date of commissioning. At least one of the performance certificates shall be submitted from Govt. of India/State Govt.(s) or their undertakings.		Since 31.5KA rating in 36kV Outdoor VCB is recently introduced hence performance certificate for the same will not be available. Therefore request to accept unpriced PO copies for similar or higher rating supplies made to utilities instead of performance certificates.	As per Tender condition

18	34.viii	Such type tests should have been conducted within last five years from the date of opening of this tender in a Government approved laboratory/CPRI in presence of any Government Organization's representative(s).	Such type tests should have been conducted within last <b>five TEN</b> years from the date of opening of this tender in a Government approved laboratory/CPRI in presence of any Government Organization's representative(s).	This is in line with CEA guidelines issued in May 2020. Also same is inline with clause no. 30.iv of subject tender.	Accepted, Already incorporated in technical specification
<b>PART-II : PRICE BID</b>					
19	2	The Supplier shall undertake free replacement of equipment/materials damaged or lost which will be reported by the Consignee within 30 days of receipt of the equipment/materials at Destination without awaiting for the settlement of their claims with the carriers and underwriters	The Supplier shall undertake free replacement of materials damaged or lost, which will be reported by the consignee within 10 working days of receipt of the materials at destination without awaiting for the settlement of their claims with the carriers and underwriters	Any lost or damaged material received shall be intimating to supplier within 10 working days.	As per Tender condition
<b>SECTION -IV : TECHNICAL SPECIFICATION</b>					
20	Important Instruction	The Bidder/ EPC agency is required to impart training in view of manufacture, assembly, erection, operation and maintenance for offered item, at his works, to the person/s identified by OPTCL, in the event of an order, free of cost. The cost of logistics will be borne as per the clauses of respective purchase orders/work orders.	The Bidder/ EPC agency is required to impart training in view of manufacture, assembly, erection, operation and maintenance for offered item, at his works, to the person/s identified by OPTCL, in the event of an order, free of cost. <del>The cost of logistics will be borne as per the clauses of respective purchase orders/work orders.</del>	Only the training shall be given free of cost. Travelling, lodging & boarding expenses of OPTCL representatives shall be in OPTCL scope.	As per tender condition
21	4.1	A.C. supply to auxiliaries will be 3 phase, 3 wire, 430 volt or single phase 250 volts at 50 C/s.	A.C. supply to auxiliaries will be 3 phase, 3 wire, 430 volt or single phase 230 volts at 50 C/s.	AC auxiliary supply shall be single phase 230VAC.	Purchaser will provide Auxiliary AC 415 V, 50 Hz, 3Ø, 4 wire, neutral earthed for Lighting, Heater & Spring Charge Motor from which single phase supply can be taken.
<b>SECTION 3: 36 KV RATED VACUUM CIRCUIT BREAKERS (OUT DOOR TYPE), TECHNICAL DETAILS</b>					
22	1.11.1	Break Time : 3 Cycles	Break time : 45 ± 15 ms		As per technical specification
23	1.11.2	Make time : 5 cycles	Make time : 60 ± 15 ms		As per technical specification
24	1.16	Actual ground clearance of bottom live part : 3800 ± 100 mm	Actual ground clearance of bottom live part : 3700 mm		As per technical specification
25	1.17	Class of VCB : M2-E2-C2	Class of VCB : M2-E2 (without autoreclosing)-C2	CB shall be suitable for E2 class without autoreclosing	Accepted.
26	4	The cubicle shall be of gasketed weather proof construction, fabricated from sheet Aluminum alloy (minimum 3 mm thick) / Stainless Steel sheet (minimum 2 mm thick).	The cubicle shall be of gasketed weather proof construction, fabricated from sheet CRCA sheet having minimum 3 mm thick.	Cubicle shall be made of 3mm thick CRCA sheet.	As per technical specification
27	5	The steel support structure shall be designed with factor of safety of 2.5 based on elastic limit of tension members and on crippling load of compression members.	Said clause shall be removed	The support structure shall be as per type tested design of manufacturer. Structure calculations shall be submitted for OPTCL's reference.	Accepted. Should be as per type tested design.
28	9.6	The closing and tripping coils shall be designed to operate satisfactorily at any control voltage from 70% to 110% of the normal rated voltage.	The closing and operating coils shall be designed to operate satisfactorily at any control voltage from 85% to 110% & 70% to 110% of the normal rated voltage respectively.	The closing coils shall operate at range of 85% to 110% of rated control voltage & trip coil shall operate at range of 70% to 110% of rated control voltage	Accepted.

29	9.7	Necessary cable glands for the cables of the operating mechanism shall be provided	Said clause shall be removed	Cable glands shall not be in bidders scope of supply.	As per technical specification
30	10.2	Both the pad portion and conductor holding portion shall be six (6) bolted type.	The pad portion shall be Four (4) bolted & conductor holding portion shall be six (6) bolted type.	Breaker pad shall be as per manufacturers type tested design only.	Accepted. Should be as per type tested design.
31	25	PAINTING, GALVANISING AND CLIMATE PROOFING:	Breaker control cubicle shall be powder coated instead of liquid painting.		Refer TS SECTION 3 clause 4 & 25
<b>SECTION 4: 420/245/145 KV SF6 CB &amp; 36 KV VCB: TESTS, INSPECTION, QAP, DOCUMENTATION, PACKING AND FORWARDING, SUPERVISION OF ERECTION, TESTING AND COMMISSIONING (ET&amp;C), QUANTITY AND DELIVERY REQUIREMENTS</b>					
32	1.1.6	List of type tests as per IS/IEC	Only copies of mandatory type test as per relevant IS/IEC shall be submitted for reference.		As per technical specification
33	1.2.2	No sampling is allowed for factory acceptance tests. FAT of 100% of the offered quantity shall be witnessed by OPTCL representative.	Random sampling of 10% of offered lot shall be done for factory acceptance test in presence of OPTCL representative	It is not practically possible to offer 100% lot for acceptance test.	As per technical specification
34	1.2.4	Any additional tests required by the inspecting officer.	Any additional tests required by the inspecting officer. Subject to technical & commercial feasibility		As per technical specification
35	3.3.3.b	Quantum of check/Sampling rate = 100%.	Quantum of check/Sampling rate = 10%.	It is not practically possible to offer 100% lot for acceptance test.	As per technical specification
36	4.5	The supplier shall also furnish fifteen (15) copies of manuals covering erection, commissioning, operation and maintenance instructions and all relevant information and drawings pertaining to the main equipment as well as auxiliary devices.	The supplier shall also furnish fifteen (15) copies of manuals in soft copy covering erection, commissioning, operation and maintenance instructions and all relevant information and approved drawings pertaining to the main equipment as well as auxiliary devices.	All documents shall be submitted in soft copy instead of hard copy.	As per technical specification
37	6	SUPERVISION OF ERECTION, TESTING AND COMMISSIONING (ET&C):	Said clause shall be removed	Supervision of erection & commissioning shall not be in suppliers scope. In case required same shall be done on chargeable basis.	As per technical specification
38	8	Supplier also should provide after sales service within 15 days of receipt of intimation from the field Engineer-in-charge of the equipment or the purchaser	Supplier also should provide after sales service within reasonable period from the receipt of intimation from the field Engineer-in-charge of the equipment or the purchaser		As per technical specification
<b>APPENDIX-I: SCHEDULE OF QUANTITY AND DELIVERY (FY 2022-23 &amp; 2023-24)</b>					
39			The delivery shall be linked to date of issue of clear drawing approval or manufacturing clearance instead of issue of purchase order.	The manufacturing can not start without drawing approval or manufacturing clearance hence the delivery shall be linked to it.	As per tender document
<b>General</b>					

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40		<p>Please include following clauses in tender :</p> <ul style="list-style-type: none"> <li>• <b>Exclusion of Consequential Damages :</b> Notwithstanding any other provision to the contrary, in no event shall ABB, its suppliers, sub-contractors, employees and Affiliates, be liable under this contract for any loss of profits, loss of use, loss of production, loss of contracts, loss of data or any indirect or other consequential losses/damages, whether in contract, warranty, tort, negligence, strict liability or caused otherwise.</li> <li>• <b>Limitation of Liability</b> Notwithstanding anything contained in this Contract/PO and/or any of its parts, it is agreed between the parties hereto that the aggregate cumulative liability of the ABB under this Contract/PO (regardless whether the claim is based upon tort, negligence or strict liability) resulting in any way from the performance or non-performance, all indemnities, liabilities, loss, damages, expenses, claims, direct damages risk purchase etc. shall not exceed 100% of the Contract value/PO value.</li> </ul>		As per tender document
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**BHEL PRE BID CLARIFICATION FOR NIT NO-CPC-38/2022-23**

SN	BHEL query	OPTCL Reply
1	Considering the delivery period as under 1. 25nos 36 kV VCB: within 6 months from the date of PO 2. 25nos 36 kV VCB: within 7 months from the date of PO 3. 25nos 36 kV VCB: within 8 months from the date of PO 4. 25nos 36 kV VCB: within 9 months from the date of PO	As per tender condition

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