

Response to Technical Pre-Bid Queries for 33KV 1250A Outdoor VCB

Tender No.: TPSODL/OT/2022-23/146

Package Name: Rate Contract for supply of 33KV 1250A & 11KV 1250A Outdoor VCB

Sr. No.	Detailed Reference to TPSODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response
1	2	3	4	5
1	contents of the enquiry - clause no. 1.7 / Page no. 7 of 29	Qualification Criteria	Bidder should have manufacturing facility of vacuum interrupter. Same make of vacuum interrupter as that of VCB will help TPSODL ensure enhance reliability	Ref Technical Spec CL 4.34
2	contents of the enquiry -clause no. 3.9 /page no. 13 of 29	The type tests specified in TPSODL specifications should have been carried out within five years prior to the date of opening of technical bids and test reports are to be submitted along with the bids.	The type tests specified in TPSODL specifications should have been carried out within five TEN years prior to the date of opening of technical bids and test reports are to be submitted along with the bids.	Type tests should have been conducted in CPR/ERDA/International Labs during the period not exceeding years as per CEA latest Guidelines .
3	contents of the enquiry -clause no 7.4/Page no. 16 of 29	Delivery shall be made within 60 days from date of receipt of Release Order / CAT-A issuance, whichever is later.	Delivery shall be made within 120 days from date of receipt of Release Order / CAT-A issuance, whichever is later.	Tender T & C shall remain same
4	Annexure I- Schedule of Items -Page no. 19 of 29		Rated continious current shall be : For 33kV OD VCB - 1600A For 11kV OD VCB - 1600A	NA
5	Technical specification clause no. 3.8/ Page no . 1 of 13	This specification covers technical requirements of design, manufacture, construction, performance, testing at manufacturer's works, packing, forwarding, supply and unloading at stores/site of 33KV Outdoor VCB of 1250 Amps. Completed along with CT Structure and all other accessories for trouble free and efficient performance.	This specification covers technical requirements of design, manufacture, construction, performance, testing at manufacturer's works, packing, forwarding, supply and unloading at stores/site of 33KV Outdoor VCB of 1250-1600 Amps. Completed along with CT Structure and all other accessories for trouble free and efficient performance.	Specification to be complied
6	Technical Specification Clause no. 3.8/ Page no . 2 of 13	Wind Pressure 300 Km/hr	Wind Velocity : 180 km/hr . As per IS 875-3 (1987) appendix A the basic wind speed at 10 meter height (where autoecloser is getting mounted) for Bhubaneshwar is 50 meter per second.	Specification to be complied
7	Technical specification clause clause no. 4.14.4 / Page no. 4 of 13		Offered CB shall be suitable for single capacitor bank switching application only.	As per IEC 62271-100
8	Technical specification clause no. 4.18/Page no. 4 of 13	Closing time (max) 60 ms	Closing time (max) 65 ± 15 ms . Closing & opening time shall be as per manufactrers type tested design only	Specification to be complied
9	Technical specification clause no. 4.33/Page no. 4 of 13	Material of main contact : copper chromium, silver plated	Material of main contact shall be copper chromium only. Since the contact are inside vacuum interrupter hence silver plating is not required for the same.	Noted
10	Technical specification clause no. 5.1.1 /Page no. 5 of 13	Circuit breaker shall be housed in a weather proof & dust proof cabinet made of Galvanized steel, the thickness of which shall not be less than 3 mm.	Circuit breaker shall be housed in a weather proof & dust proof cabinet made of mild steel (HRC A), the thickness of which shall not be less than 2.5 mm. CB control cabinet shall be of MS of 2.5mm thickness as per earlier supplied CB's in TPNODL / TPCODL .	Specification to be complied
11	Technical specification clause no. . 5.1.1 /Page no. 5 of 13	All the cable glands used for connections shall be of double compression type.	Cable glands shall not be in ABB's scope of supply.	Specification to be complied
12	Technical specification clause no. 5.1.3 /Page no. 5 of 13	Requisite number of cable entries shall be provided at the bottom of the operating cabinet to receive purchaser's control cables.	Undrilled gland plate shall be provided inside CB control cabinet to receive purchaser's control cables.	Specification to be complied
13	Technical specification clause no.5.1.3 /Page no. 5 of 13	Number and size of cable glands will be intimated to the bidder.	Cable glands shall not be in ABB's scope of supply.	Number and size of cable glands will be intimated to the bidder at the time of detail engineering.
14	Technical specification clause no , 5.1.5 /Page no. 6 of 13	Vent outlets of circuit-breakers shall be so situated that a discharge of gas shall not cause electrical breakdown and is directed away from any location where persons may be present. The necessary safety distance shall be stated by the bidder. The construction shall be such that gas cannot collect at any point where ignition can be caused, during or after operation, by sparks arising from normal operation of the circuit breaker or its auxiliary equipment.	Said clause shall be removed . Since we are offering VCB hence said clause shall not be applicable.	Noted

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15	Technical specification clause no. 5.2.1 /Page no. 6 of 13	Spring_ charging motor shall be universal type with overload protection and overload relay with contacts for annunciation.	Spring_ charging motor shall be universal type with overload protection and overload relay with contacts for annunciation. MCB/Fuse shall be provided for sp. charging motor. Limit switch shall be provided to cut off sp. charging motor supply after completion of charging.	Noted
16	Technical specification clause no 5.2.2 /Page no. 6 of 13	A manual closing device that can easily be operated by one person standing on the ground shall also be provided for maintenance purposes.	Said clause shall be removed . Looking into safety aspect it is not advisable to close the breaker manually hence	Specification to be complied
17	Technical specification clause no 5.3 /Page no. 7 of 13	All contacts shall be silver coated (Thickness shall be specified) and made of Copper Chromium alloy.	All contacts shall be silver coated (Thickness shall be specified) and made of Copper Chromium alloy. Since the contact are inside vacuum interrupter hence silver plating is not required for the same.	Noted
18	Technical specification clause no. 5.5 /Page no. 8 of 13	Primary terminals shall be Silver plated copper suitable for wedge type connectors with ZEBRA conductors.	Primary terminals shall be Silver plated copper Aluminium suitable for wedge type connectors with ZEBRA conductors. Terminal plate of CB shall be made of aluminium as per the type tested design. Same shall be suitable for TPSODL requirement.	Noted
19	Technical specification clause no 5.5 /Page no. 8 of 13	It should have Primary terminals (connected at Fixed contact) on either side at top in case of bypassing CB.	Said clause shall be removed .Top terminal plate of CB (connected to fixed contact) shall be one side only. Please see GA drawing for ready reference.	Specification to be complied
20	Technical specification clause no. 5.8 /Page no. 8 of 13	CT Base shall be 310 X 310 mm (Hole Centre to Centre)	CT Base shall be 450 X 450 mm (Hole Centre to Centre) .CT base shall be as per standard design	Specification to be complied
21	Technical specification clause no. 7.1 /Page no. 9 of 13	Dynamic contact resistant measurement (Signature test)	Said clause shall be removed . Since we are offering VCB hence said clause shall not be applicable.	Specification to be complied
22	Technical specification clause no 7.2 /Page no. 9 of 13	Type tests	Only mandatory type test as per IEC62271-100 shall be applicable	Specification to be complied
23	Technical specification clause no 7.2 /Page no. 10 of 13	Type tests	The type tests carried out within TEN years prior to the date of opening of technical bids and test reports shall be acceptable. Type test reports within 10 years from the date tender opening shall be accepted. This is in line with CEA guidelines issued on May 2020	Specification to be complied
24	Technical specification clause no. 11 /Page no. 10 of 13	In the event any defect is found by the Company up to a period of 36 months from the date of commissioning or 48 months from the date of last supplies made under the contract, whichever is earlier, bidder shall be liable to undertake to replace/rectify such defects at his own costs.	In the event any defect is found by the Company up to a period of 36 months from the date of commissioning or 48 months from the date of last supplies made under the contract, whichever is earlier, bidder shall be liable to undertake to replace/rectify such defects at his own costs. The warrantee of equipment shall be linked with individual supply date instead of last supplies made under contract.	Specification to be complied
25	Technical specification clause no 11 /Page no. 10 of 13failing which the Company will be at liberty to get it replaced/rectified at bidder's risks and costs and recover all such expenses plus the Company's own charges(@ 20% of expenses incurred), from the bidder or from the " Security cum Performance Deposit" as the case may be.failing which the Company will be at liberty to get it replaced/rectified at bidder's risks and costs and recover all such expenses plus the Company's own charges(@ 20% of expenses incurred) , from the bidder or from the " Security cum Performance Deposit" as the case may be. Only actual incurred expenses shall be recovered.	Specification to be complied
1	Doc No. ENG-ELC-015 Clause No. 4.28 Page No.4	Minimum Vertical clearance of live conductor from ground level 4.6 M (As per CEA Safety Regulation, 2010)	Clearance between upper live terminal to ground including plinth height is 4290mm as per previous supplied. Kindly confirm	Noted
2	Doc No.ENG -ELC-015, Clause No.5.1.1 Page No.5	5.1.1 Circuit breaker shall be housed in a weather proof & dust proof cabinet made of Galvanized steel.	Circuit breaker shall be housed in a weather proof & dust proof cabinet made of CRCA Steel as per our type tested design. Kindly confirm	Spec to be Complied However Better offer can be Accepted

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3	Doc No.ENG -ELC-015, Clause No.5.1.1 Page No.6	Vent outlets of circuit-breakers shall be so situated that a discharge of gas shall not cause electrical breakdown and is directed away from any location where persons may be present. The necessary safety distance shall be stated by the bidder. The construction shall be such that gas cannot collect at any point where ignition can be caused, during or after operation, by sparks arising from normal operation of the circuit breaker or its auxiliary equipment.	Since Tender requirement is Outdoor VCB . So this clause is not applicable for Outdoor VCB. Kindly confirm	Noted
4	Doc No.ENG -ELC-015, Clause No.5.1.1 Page No.8	5.5 PRIMARY TERMINALS: Primary terminals shall be Silver plated copper	The ODVCB terminal connector shall be of aluminium material. Kindly confirm	Spec to be Complied
5	The ODVCB terminal connector shall be of aluminium material. Kindly confirm	SPECIAL TOOLS & GAUGES: A list of complete set of special tools and gauges required for erection & maintenance and installation procedure shall be submitted	Since Tender requirement is Outdoor VCB . So set of special tools and gauges are not required for erection & maintenance and installation. Kindly confirm	Noted