

Prebid Queries Response Supply of CR Panel & VCB NIT No.: TPSODL/OT/2022-23/015

S. No	Clause ref.	Requirement as per Tender	Amendment proposed	Justification	TPSODL Response
1	2.1	Price variation clause : The prices shall remain firm as finalized for annual contract period.	Price variation clause : The prices shall be variable	Looking into the current volatility in the commodity market, it is advisable to keep the prices on variable basis, especially for rate contracts with validity of 1 year. This will help suppliers to offer most competitive rates without worrying about commodity variation	Tender T & C shall prevail
2	2.2	Quantity variation Clause: There will not be any guarantee on quantity of job.	There shall be a cap on Qty. variation & same shall be limited to $\pm 10\%$ of the tendered Qty.	There shall be limit to qty variation. Without such variation it is very difficult for supplier to propose his price proposal.	Tender T & C shall prevail. However the tender Qty has been made based on the upcoming requirement only.
3	3.5	Bids shall remain valid for 180 days from the due date of submission of the bid.	Bids shall remain valid for 120 days from the due date of submission of the bid.	The maximum period of validity shall be 120 days only.	Tender T & C shall remain same
4	3.9	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 for 11kV OD VCB specified in TPSODL specifications should have been carried out within TEN years prior to the date of opening of technical bids and test reports are to be submitted along with the bids.	Since we have not done any changes in the basic design of the said CB hence we do not envisage any repetition of type test. Therefore for 11KV Outdoor VCB we request you to accept type test reports which are more than 5 years old.	Validity shall be acceptable as per TPSODL Specification / Latest CEA Guidelines
5	4.6	Reverse Auctions	Bids shall be decided on L1 basis only. Reverse auction should not be carried out.	As per management guidelines of ABB, we can not participate in reverse auction. L1 bidder price shall be considered as final & no negotiations shall be carried out.	Tender T & C shall remain same.
6	7.1	OEM shall deploy the commissioning engineer for supervision of testing and commissioning of the equipment, as per intimation from TPSODL.	Kindly confirm the no. of man days for which supervision is required ?	Kindly confirm the no. of man days for which supervision is required ?	SOW is changed. ITC in BA's Scope only .
7	7.1	Delivery period shall be 60 days from date of receipt of release order / CAT-A issuance, whichever is later.	Delivery Timelines : Delivery to commence from 12 weeks from CAT 'A' Dwgs. & GTP approval in lots as below : LOT 1 shall be of 20 Nos. & balance 20 Nos. in each month thereafter	Delivery Timelines : Delivery to commence from 12 weeks from CAT 'A' Dwgs. & GTP approval in lots as below : LOT 1 shall be of 20 Nos. & balance 20 Nos. in each month thereafter	Tender T & C shall remain same.

8	7.5	80% Payment shall be made within 45 days of submission of error free invoice upon successful supply of the equipment, duly certified from authorized person from TPSODL. 20% payment shall be released within 45 days of submission of error free invoice upon after successful integration and commissioning of the equipment by TPSODL. Necessary support will be provided by BA.	100% payment shall be released within 45 / 90 days from the date of submission of invoices along with receipted LR.	ABB's scope shall be limited to only supply of 11kV & 33kV OD VCB, hence 20% balance payment shall not be linked to commissioning activities & 100% payment shall be made within 45 / 90 days against submission of invoices.	Revised Payment terms as per Corrigendum - I Only
9	Annexure I	Total Inclusive amount as mentioned above is landing cost at TPSODL and, shall be inclusive of all taxes, duties, freight, and insurance, loading & unloading charges.	Total Inclusive amount as mentioned above is landing cost at TPSODL and, shall be inclusive of all taxes, duties, freight, and insurance, loading only.	Unloading at TPSODL site/store shall not be in bidders scope	As per revised Scope, SITC is in BA scope (Including Transportation as well)
10	Annexure I Schedule of Items	Supply of 33 KV Outdoor VCB-1250A with structure as per TPSODL Specification	Supply of 33 KV Outdoor VCB 1600A with structure as per TPSODL Specification		11KV Outdoor VCB of 1250 Amps. Completed with all accessories along with CT Structure for trouble free and efficient performance.
11	Annexure I Schedule of Items	Supply of 11 KV Outdoor VCB-1250A with structure as per TPSODL Specification	Supply of 11 KV Outdoor VCB 1600A with structure as per TPSODL Specification		11KV Outdoor VCB of 1250 Amps. Completed with all accessories along with CT Structure for trouble free and efficient performance.
General Conditions of contract					
12	3.9	Reverse Auctions	Bids shall be decided on L1 basis only. Reverse auction should not be carried out	As per management guidelines of ABB, we can not participate in reverse auction.	tender T & C shall prevail

12	5.0	Unless specified elsewhere in the contract document, the prices / rates are inclusive of cost of finished product for which MDCC will be issued by TPSODL, packaging and forwarding charges, freight and transit insurance charges covering loading at Associate's works, transportation to TPSODL store/site & unloading & delivery at TPSODL stores / TPSODL site, cost of documentation including all the relevant test certificates and other supportive documents to be furnished.	ABB's scope shall be limited to design, engineering, manufacture, supply, shop testing at manufacturer's works, packing, loading, transportation, freight, transit insurance only.	Unloading at TPSODL site/store shall not be in bidders scope	As per revised Scope, SITC is in BA scope (Including Transportation as well)
13	6.0	Payment terms : TPSODL will make 100% payment within 30 days of submission of the Bill / Invoice complete in all respects and along with all the requisite documents mentioned above, subject to condition that Associate has furnished the requisite Security-cum-Performance Guarantee as stipulated in the contract.	This clause is in contradiction of payment terms clause 7.5 of page no. 17. Please clarify the exact payment terms	100% payment shall be released within 30 days from the date of submission of invoices along with receipted LR.	Revised Payment terms as per Corrigendum - I Only
14	12.5.10	BA representative should accompany the material and get it unloaded / stacked in his presence wherever possible.	Unloading / stacking at TPSODL site/store shall not be in bidders scope	Unloading / stacking at TPSODL site/store shall not be in bidders scope	As per revised Scope, SITC is in BA scope (Including Transportation as well)
15	13.1	Associates shall stand guarantee that the equipment and material supplied under the contract is free from design, manufacturing, material, construction, erection & installation and workmanship & quality defects and is capable of its due, rated and intended quality performance, as an integrated product delivered under the contract, for a specific period termed as Guarantee Period(as elaborated elsewhere in this clause).	Associates shall stand guarantee that the equipment and material supplied under the contract is free from design, manufacturing, material, construction and workmanship & quality defects and is capable of its due, rated and intended quality performance, as an integrated product delivered under the contract, for a specific period termed as Guarantee Period(as elaborated elsewhere in this clause).	Removed the words erection & installation since same is not in our scope of supply.	Please Refer revised SOW as per corrigendum- I

16	13.3	If during the Warranty/ Guarantee period some parts of the supplies are replaced owing to the defects / damages under the Warranty, the Warranty period for such replaced parts shall be until the expiry of twelve months from the date of such replacement or renewal or until the end of original Guarantee period, whichever is later.	If during the Warranty/ Guarantee period some parts of the supplies are replaced owing to the defects / damages under the Warranty, the Warranty period for such replaced parts shall be until the expiry of twelve months from the date of such replacement or renewal or until the end of original Guarantee period, whichever is earlier.	Warranty period of repaired / replaced items shall be restricted to the warranty period of the original equipment supplied. No extended warranty shall be provided for repaired/replaced parts.	Specification to be complied
17	13.3	In case the Associate is not able to rectify/ replace the faulty equipment/ material within the stipulated timelines as mentioned above, penalty shall be levied as per the Liquidated Damages clauses mentioned in this document. The penalty amount shall be recovered from the payment due to the vendor or by encashment of the SPBG as the case may be.	Warranty obligations shall be exclusive remedy for Purchaser against any defects arising in the supplied products.		Tender T & C shall prevail
18	13.6	Latent defect : Hidden defects in manufacturing or design of the product supplied and which could not be identified by the tests conducted but later manifested during operation of the equipment are termed as latent defects. Associates shall further be responsible for 'free replacement' for another period of THREE years from the end of the guarantee period for any 'Latent Defects' if noticed and reported by the Company.	Hidden Design defects in manufacturing or design of the product supplied and which could not be identified by the tests conducted but later manifested during operation of the equipment are termed as latent defects. Associates shall further be responsible for 'free replacement' or repair for another period of THREE years from the end of the guarantee period for any 'Latent Defects' if noticed and reported by the Company.		Tender T & C shall prevail
19	14	Liquidated damages	•LD shall be computed under respective Purchase Orders to max. of 5% of PO value only and not on total contract value. •LD shall be exclusive remedy for delay and in full satisfaction. Under the contract, TPSODL shall first exhaust the LD max limit before resorting to any other remedy available under the contract.		Tender T & C shall prevail
20	17	Intellectual Property Rights	Any intellectual property developed or acquired by Associate during course of contract shall be owned by Associate.		Tender T & C shall prevail

21	18	Indemnity (para 2)	<p>We propose following change in indemnity clause.</p> <p>The Associate assumes responsibility for and shall indemnify and save harmless the TPSODL from all liability, claims, costs, expenses, taxes and assessments including penalties, punitive damages, attorney's fees and court costs which are or may be required to be paid by the TPSODL and its officers, directors, employees, affiliates, agents, successors and assigns arising from any breach of the Associate's obligations under the Contract or for which the Associate has assumed responsibilities under the Contract including those imposed under any local or national law or laws, or in respect to all salaries, wages or other compensation for all persons employed by the Associate or his Sub-Associates or suppliers in connection with the performance of any work covered by the Contract.</p>		Tender T & C shall prevail
22	19	Except for any specific liability which may be identified in the Contract and which may be payable hereunder, Associate shall not be liable for any special, incidental, indirect, or consequential Damages or any loss of business Contracts, revenues or other financial loss (or equivalents thereof no matter how claimed, computed or characterized) arising out of or in connection with the Performance of the Work or supply of Goods unless caused by Associate's	<p>Slight modification is requested in the clause.</p> <p>Notwithstanding any provision to the contrary Except for any specific liability which may be identified in the Contract and which may be payable hereunder, Associate shall not be liable for any special, incidental, indirect, or consequential Damages or any loss of business Contracts, revenues or other financial loss (or equivalents thereof no matter how claimed, computed or characterized) arising out of or in connection with the Performance of the Work or supply of Goods unless caused by Associate's gross negligence or willful misconduct or breach of</p>		Tender T & C shall prevail
23	22.3	Termination for convenience of TPSODL	<p>In case of termination for convenience of TPC, Associate shall also be paid for the cost of work in progress along with supplies/services rendered until date of termination.</p> <p>Clause 24.1 is contradictory to clause 22.3, therefore 24.1 shall be deleted.</p>		<p>Tender T & C shall remain same.</p> <p>Although in case of termination of conveyance, clause 22.3 will prevail and has to be read in conjunction with clause 24.1, if 22.3 is succeeding 24.1 during Contract execution.</p>
24	27.b	TPSODL shall be the principal holder of the policy	ABB India Ltd shall be the principal holder of the policy	Since we have a open marine policy for pan India basis hence we can not change the principal holder of the same.	OK. Marine Policy copy shall be submitted by BA.
General					

48			In case of breach of contract/PO by TPSODL which is not cured within 15 days of notice from Supplier or delay by Purchase exceeding 30 days or suspension by TPSODL beyond 30 days, Supplier shall be entitled to terminate the contract/PO. TPSODL shall pay Supplier for all Products completed or partially completed before the effective date of termination, and Supplier shall be entitled to recover any costs, expenses, loss or damage reasonably incurred as a result of such termination, including but not limited to costs of work in progress, expenses for repossession, fee collection or costs of storage during suspension.		Tender T & C shall prevail
Sr. No.	Detailed Reference to TPnODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPSODL Response	
1	2	3	4		
1	SCC : 7.1.5 & 7.0.7 Delivery Schedule	Delivery period for supply of material shall be 60 days months from CAT A given by TPSODL. BA shall submit the GTP/ drawing within 2 weeks from date of issuance of RC.	We request for delivery period to be 20 weeks from manufacturing clearance and GTP/Drawing submission from 4 weeks from RC/LOA.	Tender T & C shall prevail	
2	CRP TS / 1.0 Scope	unloading of panels as mentioned in the specification, at site/stores	We request you to exclude unloading of panels from bidder's scope.	As per revised Scope, SITC is in BA scope (Including Transportation as well)	

3	<p>CRP TS / 1.0.1 Scope</p> <p>CRP TS / 1.0.7 Scope</p> <p>CRP TS / 4.3.3 Low Voltage Control Cables</p> <p>CRP TS / 4.3.3 Low Voltage Power Cables</p> <p>CRP TS / 4.4.16 Panel Internal wiring</p>	<p>- Complete wiring of relay from CT, PT and DC aux power requirement, extending power supply with proper cable carrier system inside control room with cabling and wiring including proper dressing of wiring.</p> <p>- 1.5 & 2.5 Sq mm LV power and control cable for AC/DC power supply requirement for each CRP inside control room from AC/DC distribution board shall be in bidder's scope.</p> <p>- LV Control Cables Clause - D10LV Power Cables Clauses</p> <p>- Supply and laying of LV power and control cables from existing switchyard to the supplied panels inside panel room are in TPSODL scope, however, the power supply cables inside the control room from AC and DC distribution boards inside the supplied CRP panels shall be in the bidder's scope for supply, laying and terminations including cable tray and its supports and earthing is in bidder's scope.</p>	<p>Since this a loose CRP tender, supplying, laying & termination of unquantified control & power cables, cable trays is not possible. Please exclude from the scope of work.</p>	<p>Refer to revised scope of work</p>
4	<p>CRP TS / 1.0.3 Scope</p> <p>CRP TS / 4.3.1 Multifunction Meter</p>	<p>Cat-6/RJ45/Fiber Optic cables (Double Run) from CR panels till Ethernet Switch in GI Flexible Conduit. Loop cables among Ethernet switches installed in 66/33/11 KV Bays and the Ethernet Switches installed in RTU Panel.</p> <p>Laying of Communication Cable along in GI conduit shall be in supplier's scope</p>	<p>Since this a loose CRP tender, supplying, laying & termination of unquantified communication cables is not possible. Please exclude from the scope of work.</p>	<p>Refer to revised scope of work as per Corrigendum- I</p>
5	<p>CRP TS / 1.0.8 Scope</p>	<p>Earthing copper bus bar shall be provide inside each CRP which is extended upto the station earthing pit by the bidder.</p>	<p>Panel will be provided with earthing bar, however as this a loose CRP tender extending earthing to station earthing pit with unqualified metal strips/wires is not possible. Please exclude from scope of work.</p>	<p>Specification to be complied & Refer to revised scope of work as per Corrigendum- I</p>
6	<p>CRP TS / 1.0.10 & 11 Scope</p> <p>CRP TS / 8.0 Service Scope</p>	<p>10. Integration of relays/BCPUs with RTU/DC shall be in bidder's scope.</p> <p>11. Point to point as well as configuration logic testing from links to relay as well as from relay to RTU, network Switches and SCADA is in the bidder's scope.</p>	<p>We understand our scope is limited to providing the ICD files for integration with existing RTUs. Any sort of modification, changes in existing RTUs is not in our scope. Please provide details of existing RTUs.</p>	<p>TPSODL shall provide required details of RTU during execution.</p>
7	<p>CRP TS / 1.0.13 Scope</p>	<p>Any Miscellaneous accessories required for Commissioning.</p>	<p>Please define what sort of accessories may be required during commissioning?</p>	<p>specification to be complied</p>

8	CRP TS / 1.0.14 Scope	In case of space constraint in the panel vendor need to supply and mount an additional box for installation of relay.	Please clarify what of box would be required for installation of relays? As our scope is to supply pre-wired panel with IEDs, so understand this clause is not applicable. Kindly confirm.	Specification to be complied
9	CRP TS / 1.0 Scope	Scope of work for MFM	We understand that MFM will be pre-fitted in the CRP, so this additional scope of work for MFM shall not be applicable. Please confirm	Refer to revised scope of work
10	CRP TS / 4.3.1 Multi-function meter	The desired Metering class accuracy of 0.2s is expected for metering functions.	This clause is in contradiction of MFM requirement specified in clause 4.2.9 General design requirement where 0.5s class MFM is asked for. Please confirm the requirement.	Refer clause no 4.2.9 General Design Requirement
11	CRP TS / 4.3.1 Multi-function meter	Supply and Integration of Energy Meters with Software for centralized meter data reading shall be in supplier's scope. Supplied Software shall have independent for meter make or OEM to retrieving the meter data	Since this a loose CRP tender, supplying, configuring and sort of centralized meter data reading software/system shall not be in bidder's scope. Please confirm	Refer to revised scope of work
12	CRP TS / 4.3.1.32 Multi-function meter	Preferred Make Satec PM130 EH+	We understand Secure make is also acceptable make of MFM. Please confirm.	Confirmed
13	CRP TS / 4.3.9.1 General construction of CRP	Panel shall be having dimensions equal to 800mm x 800mm x 2000mm of W x D x H	This clause is in contradiction with the sizes mentioned in the price bid schedule. Price Bid Schedule shall prevail over TS as per preference order of documents. Kindly confirm.	Refer to Annexure of Price Bid as per Corrigendum-I
14	CRP TS / 4.4.4 Panel Internal Wiring CRP TS / 4.4.17 Panel Internal Wiring	- Wires shall be vermin proof. Minimum size of conductor shall be 2.5 sq. mm in general, but for CT & VT circuits it shall be 4 sq.mm. - All CT &PT circuits: minimum of 4 sq. mm copper. AC/DC Power Supply Circuits: 4 sq. mm Copper. All other circuits: minimum of 2.5 sq. mm Copper.	We recommend to use 1.5sqmm for control and 2.5 sqmm for CT / VT and power circuit as these sizes are more than sufficient. Please confirm.	specification to be complied
15	CRP TS / 4.8 Control Switches CRP TS / 4.9 Indication Lamps	The control switch of breaker and isolator shall be of spring return to neutral type. Indication Lamps	We understand that panels will be supplied with BCPUs so there is no requirement of control switches, indication lamps, mimic & annunciation on Panels. Please confirm.	Specification to be complied
16	CRP TS / 4.11 Preferred Make of CRP Panels	Panel makes	We understand that Siemens make panels are acceptable. Kindly confirm.	Noted
17	CRP TS / 4.14 Warranty	In the event any defect is found by the Company up to a period of 60 months from the date of commissioning supplier shall be liable to undertake to replace/rectify such defects	Since this is a loose CRP order we request warranty clause to specified as "60 months from the date of supply of CRP against manufacturing defects" Please accept.	Specification to be complied & Refer to revised Scope of Work
18	CRP TS / 8.1 Service SLA	Vendor shall conform in a signed SLA	This AMC is not part of the scope of work, so SLA shall not be applicable. Please confirm.	Not understood.

19	CRP TS / 8.1 Delivery Terms/ Period of contract:	The supply of material shall be completed within 60 days from the date of award, subject to availability of clearance provided by TPSODL. The work of CRP installation & commissioning of supplied Relay of substation, shall be done within 5 days per substation. The site / substation clearance / equipment outage requirement for above activities shall be provided by TPSODL engineer in charge. Overall contract period shall be 5 months from the date of issuance of Work Order.	We request for delivery period to be 20 weeks from manufacturing clearance and GTP/Drawing submission from 4 weeks from RC/LOA. Commissioning shall be completed as mutual agreement during execution stage depending on site readiness Overall contract period shall be at least 12 months depending on site readiness and availability of electronics components. Please confirm.	Tender T & C shall prevail
20	CRP TS / 8.2 Spares:	Spares	As this is loose CRP tender, so any kind of additional spares not mentioned in price schedule are not applicable. Please confirm.	May Pls stick to revised SOW as per Corrigendum-I
21	CRP TS / 4.3.5/ Point No 14/ Pdf Sheet No 12 of 27	14) Rear ports shall be redundant with RSTP/PTP requirement for client server Communication.	Please confirm if PTP is required. Proposed device supports SNTP for time synch as per point no 14, Pgae 13 of 27 of the technical spec.	Specification to be complied
22	CRP TS / 4.3.5/ Point No 18/ Pdf Sheet No 12 of 27	Downloading/ uploading file from any relay ports shall not change its 61850 engineering and device engineering.	We understand it is applicable for Downloading & uploading for protection related file only (Setting, configuration etc). Please confirm.	Noted

FORMAT B.1

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	Specifications for Control and Relay panels Clause No:-1.0, Scope of work, Sr.No-3 Pg No:- 2 of 27	Cat-6/RJ45/Fiber Optic cables (Double Run) from CR panels till Ethernet Switch in GI Flexible Conduit. Loop cables among Ethernet switches installed in 66/33/11 KV Bays and the Ethernet Switches installed in RTU Panel	Our Scope is limited to Supply as per tender specification. Same is not in Bidders scope. Kindly confirm	Refer to revised scope of work
2	Specifications for Control and Relay panels Clause No:-1.0, Scope of work, Sr.No-10 Pg No:- 2 of 27	Integration of relays/BCPUs with RTU/DC shall be in bidder's scope. Approval of configuration shall be taken prior to loading in relay/BCPU.	Our Scope is limited to Supply as per tender specification. Same is not in Bidders scope. Kindly confirm	Refer to revised scope of work
3	Specifications for Control and Relay panels Clause No:-1.0, Scope of work, Sr.No-11 Pg No:- 2 of 27	Point to point as well as configuration logic testing from links to relay as well as from relay to RTU, network Switches and SCADA is in the bidder's scope	Our Scope is limited to Supply as per tender specification. Same is not in Bidders scope. Kindly confirm	Refer to revised scope of work
4	Specifications for Control and Relay panels Clause No:-1.0, General System Design, Sr.No-9 Pg No:- 7 of 27	Separate Multifunction meter shall be provided for PT voltage indication, which shall be mounted on 33kV Transformer CRP.	1No. MFM shown on tender GA drawing (Annexure A). Kindly confirm whether additional 1 No. MFM shall be provided on 33kV Transformer CRP for PT Voltage indication purpose.	PT powered MFM shall be provided by bidder for 33kV side of Transformer (without DC/AC aux power supply) , Else 1 additional MFM for PT supply indication need to be provided.

5	Specifications for Control and Relay panels Clause No:-1.0, General System Design, Sr.No-10 Pg No:- 7 of 27	Mounting space for billing energy meter of 200mm x 200mm and test terminal block shall be made available for purchaser's future requirement, on each panel.	Please confirm whether TVM shall be provided by Bidder's (or) only space shall be provided	TVM is not in bidder's scope. Only space and test terminal block shall be made available for purchaser's future requirement, on each panel.	
6	Specifications for Control and Relay panels Clause No:-4.3.3, Low Voltage Control Cables, Pg No:- 11 of 27	1.5 sqmm cable for circuit inside panel and 2.5 sqmm cable for circuit outside panel for Relays and RTU wiring shall be of 1.1kV class Low voltage cables of stranded copper conductor, PVC insulated. Cables shall be laid in Cables trays and in indoor trenches as a complete system. Trays shall be supported properly from the building structure. The entire cable tray system shall be rigid and leveled. The installation of cable tray support system shall be using the required accessories and using grip bolts for proper strength in fixing. All the above required material shall be supplied and installed by the bidder.	All the wiring shall be carried out with 1100V grade PVC Insulated Stranded copper wire of 2.5 sq mm for CT Circuit and 1.5Sqmm for other circuits of CRP.External /outside wiring shall not be bidders scope.	Specification to be complied	
Sr. No	Clause ref.	Requirement as per Tender	Amendment proposed	Justification	TSPODL Response
Technical Specification for 33kV and 11KV Outdoor Circuit breaker					
25	2	This specification covers the technical requirements of design, engineering, manufacture, testing at manufacturer's works, packing, forwarding, supply and unloading at site / store and performance of 33kV and 11kV Outdoor type Porcelain Clad Vacuum Circuit Breaker along with supporting structures, bi-metallic clamps, permanent maintenance platform, marshalling box all accessories for trouble free and efficient performance.	- Unloading at TPSODL site/store shall not be in bidders scope	- Unloading at TPSODL site/store shall not be in bidders scope	As per revised Scope, SITC is in BA scope (Including Transportation as well)
26	3	TPSODL service area has heavy saline conditions along the coast and High cyclonic Intensity winds with speed upto 300 Kmph.	Wind Velocity : Offered CB is suitable for basic wind speed of 200km/hr....		Specification to be complied
27	4.17	Total break time (max) : 60 ms	Total break time (max) : < 80 ms	Shall be as per manufacturers type tested design.	Specification to be complied
28	4.22 Clearances in air. 4.22.1; 4.22.2		Minimum clearances such as Between phases, between live parts & ground; Phase to earth etc shall be as per manuactuers type tested design.	Since the breakers are type tested as per latest IS/IEC standards hence the dimensions shall be suitable for application.	Specification to be complied
29	4.3	33kV OD CB -- Electrical Endurance : E2 Class	Offered 33kV OD CB shall be suitable for endurance class E2 class without auto-reclosing duty	Offered 33kV OD CB shall be suitable for endurance class E2 class without auto-reclosing duty	Noted

30	4.33	Material of main contact : Copper Chromium, Silver plated	Material of main contact : Copper Chromium	material of main contacts shall be copper chromium as per manufacturers type tested design	Specification to be complied
31	5.1.1	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 control cabinet shall be made up of MS-HR Steel sheet, thickness of which shall not be less than 2.5mm. Powder coated with 7 tank pre treatment process.	Circuit breaker control cabinet shall be made up of MS-HR Steel sheet, thickness of which shall not be less than 2.5mm. Powder coated with 7 tank pre treatment process.	Specification to be complied
32	5.1.1	The housing latch shall accommodate padlock requiring a 12 mm diameter hole.	The padlocking arrangement shall be done as per manufacturers standard practice.	The padlocking arrangement shall be done as per manufacturers standard practice.	Noted
33	5.1.1	All the cable glands used for connections shall be of double compression type.	Since the no. of cable glands required is not clear, hence the same shall not be in ABB scope		Will be finalised during detailed engineering
34	5.1.4	The height of manual operating handle shall not be more than 1500mm from ground level.	The height of manual operating handle from ground level shall be as per manufacturers type tested design.	The height of manual operating handle from ground level shall be as per attached GA Drawing & manufacturers type tested design.	Specification to be complied
35	5.1.5	Vent outlets of the circuit breaker 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.	Since we are offering Vacuum Circuit breaker, in which no gas is applicable & the vacuum bottles are hermetically sealed for life. Hence the said clause shall not be applicable	Since we are offering Vacuum Circuit breaker, in which no gas is applicable & the vacuum bottles are hermetically sealed for life. Hence the said clause shall not be applicable	Noted
36	5.1.6 for satisfactory operation of Trip circuit as 50 % to 110 % shall be given preference. for satisfactory operation of Trip circuit as 70 % to 110 % shall be given preference.	Tripping coil shall be suitable for operating in the range of 70% - 110% of rated control voltage. (Same shall be as per clause no. 5.2.3)	Noted
37	5.2.1	Spring charging motor shall be of universal type with overload protection and overload relay with contacts for annunciation.	Spring charging motor shall be universal type with overload protection as per manufacturers standard practice.	Fuse or MCB shall be provided for overload protection of spring charging motor. Same shall be discussed further during drawing approval.	Noted
38	5.2.2	A conveniently located manual tripping lever or button shall also be provided for tripping the breaker and simultaneously opening the reclosing circuit. A manual closing device that can easily be operated by one person standing on the ground shall also be provided for maintenance purposes.	On / Off push buttons shall be provided for circuit breaker on / off operation. Since operation handle is in built part of mechanism, hence manual closing device shall not be applicable	On / Off push buttons shall be provided for circuit breaker on / off operation. Since operation handle is in built part of mechanism, hence manual closing device shall not be applicable	Noted

39	5.2.6	Provision shall be made to enable electrical interlocking with the opening or closing of the isolator when breaker is closed. All electrical and mechanical interlocks, which are necessary for safe and satisfactory operation, shall be furnished.		Necessary contacts shall be provided for electrical interlocking with the isolators. Mechanical castle key interlock shall be in scope of TPSODL as per specs clause no. 5.1	Noted
40	5.2.7	Floor clamps, Foundation bolts, Lifting hooks and one manually operated tank lifting & lowering device for frame-mounted tanks shall be provided.	Foundation bolts & lifting hooks shall be provided for offered CB. Lifting & lowering device shall not be applicable.	Foundation bolts & lifting hooks shall be provided for offered CB. Lifting & lowering device shall not be applicable.	Noted
41	5.3	All contacts shall be silver coated & made of copper chromium alloy	Material of contact shall be copper chromium only.	Since the contact are inside vacuum interrupter hence silver plating is not required for the same. (Shall be as per manufacturers type tested design)	Specification to be complied
42	5.4	Insulators	For 33kV OD VCB in addition to porcelain, Hydrophobic cycloaliphatic epoxy polymer (HCEP) insulators shall also be acceptable	Porcelain insulators are fragile & breakable, whereas HCEP being polymer is having better strength & life. Insulator cleaning is not required, hence no shut down. Having higher creepage of 1116mm. Overall its having lesser maintenance, hence maintenance cost is also reduced.	Noted subject to type tested design
43	5.5	Primary terminals shall be Silver plated copper, suitable for wedge type connectors shall be finalized during detailed engineering	- Primary terminals shall be made up of extruded aluminium - As per specs we are considering Single Zebra type terminal connector	- Terminal pads shall be made up of extruded aluminium & silver plating shall not be applicable. (Shall be as per manufacturers type tested design)	Specification to be complied
44	5.7	Earthing	Two separate earthing terminals suitable for connecting GI strip shall be provided on CB. Earthing strip shall not be in ABB's scope of supply.		Refer to revised scope of work & Specification to be complied
45	7.2	Type Tests	Type tests which are mandatory as per IEC 62271-100 are performed on the offered CB & a copy of reports shall be provided for ref. purpose		Type test shall be acceptable as per technical specification
46	17	Spares	Prices for spares are not included in the CB price. Separate prices shall be quoted for the same & purchaser may place order for required qty. of spares along with CB.		Refer to clause no - 17 of tender specification
47	GENERAL		Please confirm whether CT mounting structure is in scope of Biider ??		Yes
General					

48			<p>In case of breach of contract/PO by TPSODL which is not cured within 15 days of notice from Supplier or delay by Purchase exceeding 30 days or suspension by TPSODL beyond 30 days, Supplier shall be entitled to terminate the contract/PO. TPSODL shall pay Supplier for all Products completed or partially completed before the effective date of termination, and Supplier shall be entitled to recover any costs, expenses, loss or damage reasonably incurred as a result of such termination, including but not limited to costs of work in progress, expenses for repossession, fee collection or costs of storage during suspension.</p>		<p>Tender T & C shall prevail.</p>
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