

	TPCODL/P&S/100000273/2022-23
	Supply and Installation of 11kV VCB Panel

Pre-Bid Query Clarification

Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
2	3	4	5
GENERAL CONDITIONS OF CONTRACT - COMPOSITE WORKS 14.0 GUARANTEE (Page 23 of 104)	14.2 Guarantee Period The Guarantee Period will be equipment/service/work specific and shall be as specified in the Standard Specifications of TPCODL for the equipment/material/service/work and where standard specifications are not part of contract documents or guarantee period is not specified in the standard specifications, the guarantee period shall be as per the Special Terms and Conditions of the Contract. In case of no mention of the guarantee period in standard specifications or SCC Guarantee Period will be 15 Months from the Date of Commissioning or 24 months from the date of delivery of final lot of supplies made, whichever is earlier.	Please confirm the applicable Guarantee/Warranty period	11 GUARANTEE Supplier shall stand guarantee towards design, materials, workmanship & quality of process/ manufacturing of items under the contract for due and intended performance of the same, as an integrated product delivered under this contract. In the event any defect is found by the Company up to a period of 48 months from the date of commissioning or 60 months from the date of last supplies made under the contract, whichever is later, supplier shall be liable to undertake to replace/rectify such defects at his own costs. within mutually agreed timeframe, and to the entire satisfaction of the Company, falling which the Company will be at liberty to get it replaced/rectified at supplier's risks and costs and recover all such expenses plus the Company's own charges(20% of expenses incurred), from the supplier or from the "Security cum Performance Deposit" as the case may be.
Specifications for 11KV Indoor Switchgear Panel for Transformer 20/25 MVA 1 GUARANTEE (Page 28 of 38)	11 GUARANTEE Supplier shall stand guarantee towards design, materials, workmanship & quality of process/ manufacturing of items under the contract for due and intended performance of the same, as an integrated product delivered under this contract. In the event any defect is found by the Company up to a period of 48 months from the date of commissioning or 60 months from the date of last supplies made under the contract, whichever is later, supplier shall be liable to undertake to replace/rectify such defects at his own costs. within mutually agreed timeframe, and to the entire satisfaction of the Company, falling which the Company will be at liberty to get it replaced/rectified at supplier's risks and costs and recover all such expenses plus the Company's own charges(20% of expenses incurred), from the supplier or from the "Security cum Performance Deposit" as the case may be.		
GENERAL CONDITIONS OF CONTRACT - COMPOSITE WORKS 6.3 Payment & Statutory Deductions (Page 14 of 104)	6.3 Payment & Statutory Deductions Payment shall be released within 30 days from the submission of the bills.	Please confirm the applicable payment terms i.e. whether 30 days or 60 days. We request you to accept payment terms as follows: "TPCODL 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."	
7 Post Award Contract Administration 7.5 Payment Terms (Page 13 of 59)	7.5 Payment Terms On delivery of the materials in good condition and certification of acceptance by certified official, Associate shall submit the Bills/ Invoices in original in the name of TP Central Odisha Distribution Limited to Invoice Desk. The payment shall be released within 60 days from the date of submission of certified bills/ invoices.		Pls Adhere the tender norms
7 Post Award Contract Administration 7.3 Delivery Timelines (Page 13 of 59)	7.3 Delivery Timelines Release Orders shall be placed against the awarded Rate Contract by TPCODL as and when the requirements arise and delivery period shall be 90 days from the approval of GTPs and drawings or issue of Release Order, whichever is later.	We request you to accept delivery period of 90 days from the date of receipt of drawing approval along with manufacturing clearance or release of Release Orders	This shall be as per Tender Clause
GENERAL CONDITIONS OF CONTRACT - COMPOSITE WORKS 3.0 CONTRACT PARAMETERS 3.1 Issue/Award of Contract (Page 6 of 104)	On receipt of the contract, the associate shall return to TPCODL copy of the contract document duly signed by legally authorized representative of associate, within two days of Effective Date of Contract for contracts having contract execution time less than 30 days and within five days for all other contracts.		
General	Regular Bidder/New Bidder	Kindly inform which kind of bidder will be considered as regular bidder and which kind of bidder will be considered as new bidder.	Who are associated bidder with TPCODL
General	Reverse auction	1. Kindly inform reverse auction will conduct for this tender or not? 2. If yes, please provide complete procedure of RA along with the detailed terms & conditions of the same.	Shall be decided after price bid opening
Doc. No ENG-ELC-004 4. Guaranteed Technical Requirement 4.2 Circuit breaker (Page 4 of 38)	4.1.11 : Bus bar continuous rated current 1250 A	We will consider main bus bar 2000A for Transformer 20/25 MVA. Please confirm the same. As per BOQ no requirement for VCB panel configuration in switchboard for capacitor bank.	

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Doc. No ENG-ELC-004 4. Guaranteed Technical Requirement 4.2 Circuit breaker (Page 5 of 38)	4.2.8 : Rated current for Incomer & Bus Coupler VCB 2000 A (For 20/25 MVA PTR)		AIS intended for 20/25 MVA busbar rating should be 2000A
Doc. No ENG-ELC-004 4. Guaranteed Technical Requirement (Page 6 of 38)	4.3 : Circuit Breaker Type/Rating(A) : VCB 2000A 4.4 : Copper Busbar Rating (A) : 2000A Item / Panel reference : Incomer & Bus Coupler		
Doc. No ENG-ELC-004 4. Guaranteed Technical Requirement (Page 8 of 38)	4.16 : Ckt. Breaker Type/Rating(A) : VCB 630A 4.17 : Copper Bus bar - Rating(A) : 1250A Item / Panel reference : Outgoing Feeder & Capacitor Bank		
Doc. No ENG-ELC-004 4. Guaranteed Technical Requirement 4.8 : Bay Control & Protection Unit . (Page 7 of 38)	4.8 : Bay Control & Protection Unit (BCPU) CB Control function and. Measurement of Three phase currents & voltages, PF, Active, Reactive (Import & export Lag & Lead) & Apparent energy and power, Frequency etc. 1 no. as per:ENG-ELC-033 ENG-ELC-028 Also separate static energy meter (TVM) of class 0.2S for reading through MRI shall be provided 1 no. Combined BCPU as per Clause ENG-ELC-033 ENG-ELC-028	Specification having specification no ENG-ELC-033 ENG-ELC-028 is not available in provided specification. Pleaes provide the same.	Provision for installation of Tariff meter shall be provided.
Doc. No ENG-ELC-004 4. Guaranteed Technical Requirement 4.15 : Bus PT (Page 8 of 38)	Bus PT Panel 4.15 : Bus PT Quantity : 3 Nos. (1-ph) Primary windings : 11000V/r3 Secondary winding(s) : 110V/r3-110V/r3 Core-1 : 110V/r3, 50VA, 3P Core-2 : 110V/r3, 50VA, 0.2 For Incomer & Bus coupler	We will provide 2 set (3 nos of 1ph) of bus PT per Switchboard and Line PT for in each incomer. Kindly confirm.	PT power pack is required for IC for DC change over scheme which will ultimately come in action when station DC is failed. This will energise the only tripping circuit of the breaker and ensure tripping of the breaker in case of any fault during DC failure of station.
5.5 VOLTAGE TRANSFORMER (Page 16 of 38)	Bus VT shall be provided in each section. In addition VTs shall be provided on incomer lines as per TPCODL requirements.		
5 GENERAL CONSTRUCTION 5.1 SWITCHGEAR (Page 12 of 38)	j) It is preferred to have condition based monitoring in switchgear using Heat and Humidity sensors in Bus-Bar , Breaker and Cable Compartments. These sensors should be integrated with RTUs/ SCADA using wireless communication.	Pleaes provide detail specification for Humidity sensors.	Following Clause stands void. "It is preferred to have condition based monitoring in switchgear using Heat and Humidity sensors in Bus-Bar , Breaker and Cable Compartments. These sensors should be integrated with RTUs/ SCADA using wireless communication."
5 GENERAL CONSTRUCTION 5.1 SWITCHGEAR (Page 14 of 38)	q) Capacitor bank switching device shall be provided with suitable gate interlock mechanism with castle key along with timer to ensure safety. Provision of 0-500 mA analog ammeter on Capacitor Bank along with Push Button shall be made for monitoring 'Unbalance Capacitor Current	As per BOO no requirement for VCB panel configuration in switchboard for capacitor bank. This clause will be not applicable	No CAP Bank Feeder considered
5 GENERAL CONSTRUCTION 5.1 SWITCHGEAR (Page 14 of 38)	s) The bidder shall deliver to site completely assembled, wired, tested panels and only the interconnecting cables shall be connected at site. The bidder shall further refer ENG-ELC-033 & ENG-ELC-028 for constructional and other requirements.	Please provide below documents ENG-ELC-033 & ENG-ELC-028 For constructional and other requirements.	Shall be Shared

Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
5.4 CURRENT TRANSFORMER (Page 17 of 38)	The physical location of CT core for differential protection shall be near BUS to have overlapping protection different zone. The additional auxiliary CTs and related wiring work required to match existing Trf. Differential Protection shall be part of this tender specification.	We will provide 3 core CT for incomer as per clause 4.6.1 To match existing TF differential protection we need core details of HV side CT Kindly provide the same.	We required 2 Independent CTS (One for Metering/Protection), One for Differential in I/C Feeder. Details shall be shared in detailed Engineering.
5.6 RELAYS (Page 16 of 38)	b) The relay resetting should be such that resetting of the main protection relay should reset all the other auxiliary relays. All the relays shall be communicable with suitable protocol so as to provide all the I/O signals required by the Purchaser c) Relays shall support Purchaser's protection philosophy as per ENG-ELC-028 & ENG-ELC-033. However, the substation operation shall comply to the integrated automation requirements with the MASTER SCADA. The bidder shall further refer to TPCODL protection and automation philosophy ENG-ELC-028 & ENG-ELC-033.	Kindly provide IO list, same is not available in provided specification.	Shall be Shared
5.17 GALVANIZING (Page 23 of 38)	5.17 GALVANIZING a) All galvanizing shall be carried out by the hot dip process, in accordance with Specification ISO:1460 or IS: 2629 amended to date.	Our VCB Panels are type tested with material CRCA sheet. This clause not applicabel for CRCA. Kindly confirm	CRCA is acceptable as per Specification.
5.18 SYSTEM ARCHITECTURE AND COMMUNICATION - (Page 23 of 38)	5.18 SYSTEM ARCHITECTURE AND COMMUNICATION - The bidder shall refer to ENG-ELC-033 & ENG-ELC-028 (protection & automation specifications of TPCODL for new grids based on IEC-61850 protocol for System architecture and communication requirements.	VCB Panel will be compatible with ICE 61850. Interconnection with other panels is not in bidder's scope	It shall be in suppliers scope. PI follow Tender Specification

Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
5.19 DATA CONCENTRATOR (Page 23 of 38)	5.19 DATA CONCENTRATOR The bidder shall refer ENG-ELC-033 & ENG-ELC-028 (protection & automation specifications of TPCODL for new grids based on IEC-61850 protocol for Data concentrator requirements.	VCB Panel will be compatible with ICE 61850. Interconnection with other panels is not in bidder's scope	It shall be in suppliers scope. PI follow Tender Specification
5.20 CONTROL, METERING AND PROTECTION (Page 24 of 38)	5.20 CONTROL, METERING AND PROTECTION Incomer switchgears should be provided with separate protection unit and separate metering & control unit. Outgoing feeder switchgears (including switchgears for capacitor & local transformer) should be provided with combined protection, metering & Control unit. All these units shall be communicable with Purchaser's SCADA on IEC-61850 protocol without any change & modification of hardware. The bidder shall further refer ENG-ELC-033 & ENG-ELC-028 (protection & automation specifications of TPCODL for new grids based on IEC-61850 protocol for Control, metering and protection requirements.	We request to accept combined protection unit and separate metering & control unit for outgoing.	Accepted
(Page 24 of 38)	5.21 REMOTE MONITORING AND MAINTENANCE STATION The bidder shall refer to ENG-ELC-033 & ENG-ELC-028 (protection & automation specifications of TPCODL for new grids based on IEC-61850 protocol for Remote monitoring and maintenance requirement 5.22 CONTROL PHILOSOPHY The bidder shall refer to ENG-ELC-033 & ENG-EHV- 105 (protection & automation specifications of TPCODL for new grids based on IEC-61850 protocol for Control philosophy requirement. 5.23 OPERATIONAL PHILOSOPHY The bidder shall refer to ENG-ELC-033 & ENG-ELC-028 (protection & automation specifications of TPCODL for new grids based on IEC-61850 protocol for Control philosophy requirement. 5.24 PROTECTION PHILOSOPHY The bidder shall refer to ENG-ELC-033 & ENG-ELC-028 (protection & automation specifications of TPCODL for new grids based on IEC-61850 protocol for Protection philosophy requirement.	Not in bidder's scope of supply.	We shall share details. No deviations allowed.
19. GUARANTEED TECHNICAL PARTICULARS (Page 32 of 38)	19.1.17 : Dimension of Switchboard (Max : W:800mm/D:1850mm	For Incomer panel due to 3 core CT Panel depth may be increase. We will provide actual depth at the time of detail engineering.	Accepted and it should be suitable for 3R single core ,630 sq. mm for 20/25 MVA (2000Amp. Busbar)
5 GENERAL CONSTRUCTION 5.1 SWITCHGEAR (Page 14 of 38)	p. Fuse failure relay and trip circuit supervision relay shall be suitably selected, considering burden and auxiliary voltage.	We will provide inbuilt function of fuse failure relay. Kindly accept.	Separate and Independent TCS is required. Against FFR Supplier may use MCB with Potential Free Contact for Signaling purpose Additionally Separate Independent Master Trip Relay is required
17. SPARES, ACCESSORIES AND TOOLS (Page 29,30 of 38)	17.1 SPARES: Bidder should quote unit rates for following mandatory spares along with the bid. However, the exact quantity of these shall be as per the BO attached with the tender. Description a) Trip Coil b) Closing coil c) Spring charging motor d) Vacuum interrupter e) T-N-C Switch f) Local / remote selector switch g) Tulip/ Finger contact h) Indication lamps i) Auxiliary switches j) LED for cable charge indication	Quantity is not mentioned in tender documents & BOQ. Please confirm required quantity.	20%
Routine Test: (Page 26 of 38)	Partial Discharge Measurement	AS per IEC, PD test is not Applicable for AIS VCB Panels	Test is not Mandatory
Type Tests (Page 26 of 38)	e) Tests to prove the satisfactory operation of the included switching devices and removable parts. (Mechanical Operation tests) f) Tests to verify the protection of persons against approach to live parts and contact with moving parts. g) Tests to verify the protection of persons against dangerous electrical effects. h) Electromagnetic Compatibility- Emission and Immunity tests (for secondary system)	We will provide IAC : 1.0Sec type test report. This type test is applicable for relays not for VCB Panels. We will provide relay type test report at the time of execution.	Accepted. But all required Safety Features/Interlocks shall be as a part of routine test Relay Type test report as per Tender Spec is required.
Special Type Test (Page 26 of 38)	a) Tests to verify protection of the equipment against external effects due to weather. b) Tests to verify the protection of the equipment against mechanical damage. d) Tests to detect certain defects in the solid Insulation of the equipment by the measurement of partial discharges.	We will provide Humidity & Mechanical operation test. This type test is not applicable for AIS VCB Panels. Same is test applicable in compact sub-station products. We will provide type test reports of CTs, PTs & insulators at the time of execution.	Accepted Test is not mandatory Accepted
4. Guaranteed Technical Requirement 4.2 : Circuit Breaker (Page 5 of 38)	4.2.8 : Rated current for Incomer & Bus Coupler VCB 1250 A (For 12.5/16 MVA PTR) , & 800 A (For 5/8 MVA PTR)	Please provide number of incomers for 1250A (For 12.5/16 MVA PTR) And no of incomers for 800A (For 5/8 MVA PTR)	Bus bar shall be 1250 Amp only.

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(Page 24,25 of 38)	5.21 REMOTE MONITORING AND MAINTENANCE STATION The bidder shall refer to ENG-ELC-033 & ENG-ELC-028 (protection & automation specifications of TPCODL for new grids based on IEC-61850 protocol for Remote monitoring and maintenance requirement 5.22 CONTROL PHILOSOPHY The bidder shall refer to ENG-ELC-033 & ENG-EHV- 105 (protection & automation specifications of TPCODL for new grids based on IEC-61850 protocol for Control philosophy requirement. 5.23 OPERATIONAL PHILOSOPHY The bidder shall refer to ENG-ELC-033 & ENG-ELC-028 (protection & automation specifications of TPCODL for new grids based on IEC-61850 protocol for Control philosophy requirement. 5.24 PROTECTION PHILOSOPHY The bidder shall refer to ENG-ELC-033 & ENG-ELC-028 (protection & automation specifications of TPCODL for new grids based on IEC-61850 protocol for Protection philosophy requirement.	Not in bidder's scope of supply.	We shall share details. No deviations allowed.
19. GUARANTEED TECHNICAL PARTICULARS (Page 32 of 38)	19.1.17 : Dimension of Switchboard (Max : W:800mm/D:1850mm	For Incomer panel due to 3 core CT Panel depath may be increase. We will provide actual depath at the time of detail engineering.	Accepted

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Routine Test (Page 26 of 38)	Partial Discharge Measurement	AS per IEC, PD test is not Applicable for AIS VCB Panels	Not a Mandatory Test
Type Tests (Page 26 of 38)	e) Tests to prove the satisfactory operation of the included switching devices and removable parts. (Mechanical Operation tests) f) Tests to verify the protection of persons against approach to live parts and contact with moving parts. g) Tests to verify the protection of persons against dangerous electrical effects.	We will provide IAC : 1.0Sec type test report.	Accepted. But all required Safety Features/Interlocks shall be as a part of routine test
	h) Electromagnetic Compatibility- Emission and Immunity tests (for secondary system)	This type test is applicable for relays not for VCB Panels. We will provide relay type test report at the time of execution.	Relay Type test report as per Tender Spec is required.
Special Type Test (Page 26 of 38)	a) Tests to verify protection of the equipment against external effects due to weather.	We will provide Humidity & Mechanical operation test.	Accepted
	b) Tests to verify the protection of the equipment against mechanical damage.	This type test is not applicable for AIS VCB Panels. Same is test applicable in compact sub-station products.	Not a Mandatory Test
	d) Tests to detect certain defects in the solid Insulation of the equipment by the measurement of partial discharges.	We will provide type test reports of CTs, PTs & insulators at the time of execution.	Accepted
ANNEXURE I & ANNEXURE VII & ENG-ELC-004	Scope of Work	We presume that followings are not in bidder/associate scope.. a) Site Unloading b) Site Storing c) Watch & Ward d) Shifting of materials at site (from store to Installation area) e) Any civil or Structural work f) Base Frame / channel work g) Supply / Laying of Power & Control Cable, Cable kits & Termination of cable h) Any CEIG /statutory approval. i) Supply of any Battery or Battery charger j) Integration with any new or existing RTU / SCADA k) connecting or establishing control from outside 33KV trafo to Xmer control	a) Site Unloading (Bidders Scope) b) Site Storing (Not in Bidders Scope) c) Watch & Ward (Not in Bidders Scope) d) Shifting of materials at site (from store to Installation area) (Bidders Scope) e) Any civil or Structural work (Not in Bidders Scope,Necessary Documents to be provided by OEM) f) Base Frame / channel work (Not in Bidders Scope,Necessary Drawings to be provided) g) Supply / Laying of Power & Control Cable, Cable kits & Termination of cable (All terminations shall be in Bidder's Scope) h) Any CEIG /statutory approval. (Not in Bidder's scope) i) Supply of any Battery or Battery charger (Not in Bidder's scope) j) Integration with any new or existing RTU / SCADA (In Bidder's scope) k) connecting or establishing control from outside 33KV trafo to Xmer control (In bidder's scope)
ENQUIRY TPCODL/P&S/1000000273/2022-23 , Clause 3.3, Page#10	The all-inclusive prices offered shall be inclusive of all costs as well as Duties, Taxes and Levies paid or payable during the execution of the supply work, breakup of price constituents.	Taxes / Duties will be charged extra as per satutory guideline during time of invoking to TPCODL.	Shall be as per compliance required
ENQUIRY TPCODL/P&S/1000000273/2022-23 , Clause 3.5, Page#10	3.5 Period of Validity of Bids Bids shall remain valid for 180 days from the due date of submission of the bid.	Contract will be awarded within 30 days from RA. RA date will be considered as zero date for contract.	Bid shall be valid for 180 days from due date of submission of bid
ENQUIRY TPCODL/P&S/1000000273/2022-23 , Clause 3.9, Page#11 / Clause no. 8 of Technical Specification	3.9 Type Tests (if applicable) The type tests specified in TPCODL 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. If type tests carried out are not within the five years prior to the date of bidding, the bidder will arrange to carry out type tests specified, at his cost. The decision to accept/ reject such bids rests with TPCODL	Type test report will be more than 5 years old for similar basic model only. The performing of any Type test is not considered in scope.	Type Test validity shall be as per CEA Guidelines. Re Performing Type test is not required is the same is already available for the quoted Model.

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ENQUIRY TPCODL/P&S/1000000273/2022-23 , Clause 3.9, Page#12	4.6. Reverse Auctions TPCODL reserves the right to conduct the reverse auction (instead of public opening of price bids) for the products/ services being asked for in the tender.	If RA is not being conducted by TPCODL then TPCODL will allow to submit revised price bid.	Not accepted
ENQUIRY TPCODL/P&S/1000000273/2022-23 , Clause 7.3, Page#13	7.3 Delivery Timelines Release Orders shall be placed against the awarded Rate Contract by TPCODL as and when the requirements arise and delivery period shall be 90 days from the approval of GTPs and drawings or issue of Release Order, whichever is later.	For Supply- 25 week from date of RO/Drawing approval/manufacturing clearance, whichever is later. For ITC work- 6 weeks for <(><)>=15 nos. of panels; 10 weeks for 16-40 nos. of panels from date of site clearance.	This shall be as per Tender clause
ENQUIRY TPCODL/P&S/1000000273/2022-23 , Clause 7.4, Page#13	7.4 Warranty Period Applicable as per Annexure-II Technical specification Guarantee Clause-11	We understand that it will be warranty only. Warranty period will be " 15 Months from the Date of Commissioning or 24 months from the date of delivery of final lot of supplies made, whichever is earlier"	Please read as "warranty" Other clauses remains as per Tender Specs
GCC, Clause no. 14.2	14.2 Guarantee Period : In case of no mention of the guarantee period in standard specifications or SCC Guarantee Period will be 15 Months from the Date of Commissioning or 24 months from the date of delivery of final lot of supplies made, whichever is earlier.		
Annexure II, Clause no. 11, Page#28	11 GUARANTEE Supplier shall stand guarantee towards design, materials, workmanship & quality of process/ manufacturing of items under the contract for due and intended performance of the same, as an integrated product delivered under this contract. In the event any defect is found by the Company up to a period of 48 months from the date of commissioning or 60 months from the date of last supplies made under the contract, whichever is later		
ENQUIRY TPCODL/P&S/1000000273/2022-23 Clause no. 7.5, Page#13 ; GCC , Clause no. 6.0,	7.5 Payment Terms	Please inform final Payment Terms, Supply & Service payment terms will be separate.	Bidder may raise the invoices separately
ENQUIRY TPCODL/P&S/1000000273/2022-23 , Clause no. 2.1 , Page#7	2.1 Price Variation Clause: The prices shall remain firm during the entire contract period.	The price for RO which will be placed within 3 months from RA will be firm, thereafter it will be as per IEEMA variation considering RA month is base month.	Not accepted
5.3 GCC	Changes in statutory tax structure - For execution of contracts beyond contract execution time, where the delay is not attributable to TPCODL no upward revision in tax/duties shall be considered irrespective of changes in the statutory tax structure either within the contract execution time or beyond. However, in such cases, benefits due to any downward revisions in statutory tax rates shall be passed on to TPCODL.	This clause is not acceptable and bid is submitted accordingly. Supply and services shall be billed as per tax structure prevalent at time of invoicing.	Shall be discussed during the negotiation
GCC	Extension of time	TPCODL will provide the time extension and cost pertaining to such delay (if delay is attributed to Tata Power DDL). The delay analysis shall be certified by Engineer-In-charge of TPCODL. If delay will be on bidder account the time extension will not be applicable	Shall be monitored by TPCODL Engineer-In-Charge
4.9 GCC	Rights of TPCODL to vary the scope of work.	Our bid is subject to consideration of below MOQ will be 80% of Tender Qty. Our bid is subject to acceptance that quantity shall not vary more than 20% of what is mentioned in BOQ.	This shall be as per Tender clause
21.1 GCC	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 negligence, willful misconduct or breach of contract.	Our bid is subject to acceptance of clause: 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 negligence, willful misconduct or breach of contract. The total liability of Associate against any contract shall be limited to the Total All Inclusive Contract Value of respective PO / RO.	This shall be as per GCC Clause

Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
15.0 GCC	<p>15.0 LIQUIDATED DAMAGES</p> <p>Liquidated damages @1% of the total executed contract value per week or part thereof, for the period of delay in integrated completion, subject to maximum 10% of the value of the contract shall become leviable without prejudice to other rights of the TPCODL. This amount shall be recoverable from any amount due or becoming due to the Business Associates under this or any other contract. In specific cases, TPCODL reserves the right to apply LD only on the unexecuted portion of the supply and works for standalone use, provided full quantity is executed within a maximum 30% additional time. Deduction of LD shall be on landed cost i.e contract value inclusive of taxes and in pursuant statutory compliance GST would be applicable at the stipulated rate and the same shall be borne by Business Associate. In case of LD deduction, a GST invoice shall be issued by TPCODL as a proof of deduction/ recovery.</p>	<p>Our bid is subject to acceptance of following:</p> <ol style="list-style-type: none"> LD shall only be levied on individual PO value. LD shall be levied on supply and services portion separately as coming into force for service portion is after site clearance by TPCODL. Deduction of LD from any other contract is not acceptable 	Shall be as per tender LD clause
15.0 GCC	<p>LIQUIDATED DAMAGES</p> <p>Liquidated damages @1% of the total executed contract value per week or part thereof, for the period of delay in integrated completion, subject to maximum 10% of the value of the contract shall become leviable without prejudice to other rights of the TPCODL.</p>	We propose 0.5% per week of undelivered portion of respective order to max 5% of respective PO / RO	Shall be as per tender LD clause
4.2 GCC	<p>Associates shall undertake to fully indemnify TPCODL (also referred to as the Company in the GCC) against all kinds of liabilities or damages, of whatsoever nature, including compensation arising from any accident to the person or property of those in Associate's employment or to any other person or properties including those of TPCODL, arising due to reasons attributable to any, act, omission or negligence of the Associate the Associates, for the entire period of contract including period of guarantee.</p>	<p>Associates shall undertake to fully indemnify TPCODL (also referred to as the Company in the GCC) against all kinds of liabilities or damages, of whatsoever nature, including compensation arising from any accident to the person or property of those in Associate's employment or to any other person or properties including those of TPCODL, arising due to reasons attributable to any, act, omission or negligence of the Associate the Associates, for the entire period of contract including period of guarantee.</p>	This shall be as per GCC Clause
14.3 GCC	<p>If Associate fails to repair/rectify/replace the equipment or material supplied/service or work rendered under the contract, failed in Guarantee Period, TPCODL will be at liberty to get the same done at Associate's risks and costs and recover all such expenses plus the TPCODL's own charges (@ 20% of expenses incurred), from the Associate or from the "Security cum Performance Deposit" as the case may be.</p> <p>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.</p>	Clause is not acceptable and bid is submitted accordingly. Moreover, we shall offer warranty instead fo guarantee	This shall be as per GCC Clause
14.6 GCC	Latent Defects	Latent defect shall apply only in case of design defect and not for manufacturing defect.	
20.0 GCC	<p>TPCODL and its officers, directors, employees, affiliates, agents, successors and assigns against all actions, claims, demands, costs, charges and expenses arising from or incurred by reason of any infringement of patent, trade mark, registered design, copy rights and/or industrial property rights by manufacture, sale or use of the equipment supplied by the Associate whether or not the TPCODL is held liable for by any court judgement. In this connection, the TPCODL shall pass on all claims made against him to the Associate for settlement. The Associate assumes responsibility for and shall indemnify and save harmless the TPCODL 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 TPCODL 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. The Associate shall execute, deliver and shall cause his Sub-Associate and suppliers to execute and deliver, such other further instruments and to comply with all the requirements of such laws and regulation as may be necessary there under to conform and effectuate the</p>	<p>Our bid is subject to acceptance of following indemnity clause instead of what is mentioned in TPCODL GCC.</p> <p>The Seller will defend, indemnify, and hold harmless Buyer as to any rightful claim that Buyer's use or sale of Products infringes an Indian patent or copyright, provided that the Buyer gives the Seller prompt written notice of the claim, allows the Seller to have sole control of the defense or settlement thereof, and cooperates fully with the Seller's defense or settlement. In the defense or settlement of a claim, or if use of the Products is enjoined, the Seller may, at its expense and option: (a) procure for the Buyer the right to continue using the Products; (b) replace or modify the Products so they become non-infringing; or if neither of these is practical, (c) grant Buyer a credit for the Products as depreciated and accept return of any goods. Depreciation shall be an equal yearly amount over the lifetime of the Products, as established by the Seller.</p> <p>The Seller will not be liable to the Buyer for any claim that is based upon: (i) use of the Products in modified form or in a manner for which they were not designed; (ii) use of the Products in combination with goods or services not provided by the Seller; (iii) use of the Products in practicing any process; or (iv) furnishing to the Buyer of any information, service or applications assistance. In no event shall the Seller's total liability to the Buyer under or as a result of compliance with the provisions of this Section exceed the aggregate sum paid to the</p>	This shall be as per GCC Clause
22 GCC	Force Majeure	Epidemic, Pandemic, change in laws to be added as FM events	If such incident happened same shall be treated under PM after proper due-diligence

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23.1 & 23.3 GCC	Suspension of contract by TPCODL	Suspension by Owner can be accepted only upon payment of work completed till the date and payment of all costs incurred or committed or have to incur; Suspension to have longest date in aggregate of 60 days, post which Associate to have right of termination with entitlement to payment of all work completed, all costs committed, 10% of the Contract Value as termination fee and reasonable profit on terminated works	Pls adhere the tender norms
Additional Clause	Suspension rights for vendor.	Schneider Electric will have the right to terminate/suspend this agreement by giving 30 days notice in writing. If contract is terminated or suspended beyond mutually agreed timelines, vendor shall receive from PURCHASER the full payment towards all the work performed. The Vendor shall also be entitled for payment with reasonable profit by PURCHASER on the part of the terminated works; payment of a sum representing 10% of the contract price as a termination fee. In addition, the Vendor shall have all other rights and remedies to which it is entitled under this Contract and/or at law".	Shall be done through TPCODL laid down process
24.1 GCC	Termination of contract by TPCODL	Our bid is subject to acceptance of following: Termination of contract without assigning any reason cannot be agreed unless TPCODL agrees to pay payment of all work completed, all costs committed/incurred, 10% of the Contract Value as termination fee and reasonable profit on terminated works	Contract Termination shall be done through TPCODL laid down process
Additional clause	Termination rights for vendor	<p>Termination by the Seller</p> <p>The Seller can terminate/ cancel the Contract with prior written notice of 30 days to the Buyer for any of the following reasons:-</p> <ul style="list-style-type: none"> a) insolvency, receivership or bankruptcy proceedings are commenced by or against the Buyer; b) Seller's payment are withheld /suspended beyond reasonable time limit; c) Buyer fails to fulfill its contractual obligations d) Any material breach or representations or warranties made was false or intentionally misleading when made. e) Buyer assigns or transfers the Contract or any right or interest herein other than in accordance with the Contract. f) Persistently fails to timely comply its obligations including approval/ certifications of drawings documents, measurements or other inputs. g) The occurrence of Force Majeure event continues for 3 months or above. h) Buyer fails to take delivery of material due to whatever reasons for more than 3 months. i) Repetitive suspension of work due to reasons attributable to Buyer. j) A change in Law of any Government Authority, where performance of contractual obligations are not feasible or possible. k) Buyer fails to provide encumbrances free land for Project work or access or approach is restricted. <p>In any case of termination and/or project being</p>	Contract Termination shall be done through TPCODL laid down process
24.1 GCC	In case Tata Power DDL exercises its right of termination as stated above the associate shall not dispute or object to the same."	Termination of contract without assigning any reason cannot be agreed unless TPCODL agrees to pay payment of all work completed, all costs committed/incurred, 10% of the Contract Value as termination fee and reasonable profit on terminated works. We have submitted our bid accordingly	Contract Termination shall be done through TPCODL laid down process
24.3 GCC	TPCODL at its sole discretion may terminate the contract by giving 30 days prior notice in writing or through email to the Associate. TPCODL shall pay the Associate for all the supplies/ services rendered till the actual date of contract termination against submission of invoice by the Associate to that effect.	Termination of contract without assigning any reason cannot be agreed unless TPCODL agrees to pay payment of all work completed, all costs committed/incurred, 10% of the Contract Value as termination fee and reasonable profit on terminated works. We have submitted our bid accordingly.	Contract Termination shall be done through TPCODL laid down process
16.0 GCC	Assignment OR sub-contracting:	Services of reliable sub-contractor shall be utilised as lot of site work under scope of work.	After due confirmation with Engineer-in-charge

Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
Additional Clause	Export Compliance Clause	Our bid is subject to acceptance of following: The deliverables provided by Seller under this Agreement contain or may contain components and/or technologies from the United States of America ("US"), the European Union ("EU") and/or other nations. Buyer acknowledges and agrees that the supply, assignment and/or usage of the products, software, services, information, other deliverables and/or the embedded technologies (hereinafter referred to as "Deliverables") under this Agreement shall fully comply with related applicable US, EU and other national and international export control laws and/or regulations. Unless applicable export license/s has been obtained from the relevant authority and the Seller has approved, the Deliverables shall not (i) be exported and/or re-exported to any destination and party (may include but not limited to an individual, group and/or legal entity) restricted by the applicable export control laws and/or regulations; or (ii) be used for those purposes and fields restricted by the applicable export control laws and/or regulations. Buyer also agrees that the Deliverables will not be used either directly or indirectly in any rocket systems or unmanned air vehicles; nor be used in any nuclear weapons delivery systems; and will not be used in any design, development, production or use for any weapons which may include but not limited to chemical, biological or nuclear weapons. If any necessary or advisable licenses, authorizations or approvals are not obtained, whether given from entities by our relevant	Adhere the GCC Clauses
Additional Clause	COVID-19 Disclaimer	Our bid is subject to acceptance of following: Notwithstanding any provision to the contrary, the Buyer agrees to accept the Contract on the basis that any stoppage, hindrance, delay or inability to perform arising from or due to the current Covid-19 epidemic or events subsequent (including but not limited to changes in laws, regulations, by-laws, quarantine and movement controls or restrictions) will be considered an excusable delay by the Seller without any consequence or any liability including, without limitation, delay penalties, liquidated or other damages or termination for default.	Shall be considered cases to case basis
BG Format	BG Format	BG format will be finalised incorporating comments of bidder / supplier's bank also.	Pls adhere the approved format only
	Standard Commercial Query	Separate PO's to be released for supply and services portion. Our bid is submitted accordingly.	RC shall be Composite RO may be separate as user required
	Standard Commercial Query	Our bid is subjected to acceptance of the following: TPCODL shall not release PO for carrying out work in more than 4 sites at the same time.	This will be done as per user requirement
ations for 11KV Indoor Switchgear Panel, Clause no	3. CLIMATIC CONDITIONS OF THE INSTALLATION: TPCODL service area has heavy saline conditions along the coast and High cyclonic Intensity winds with speed upto 300 Kmph. The atmosphere is generally laden with mild acid, dust in suspension during the dry months, and is subjected to fog in cold months. 4.	Indoor Panel should be stored & Installed in Indoor Dry & Dust free condition as per suitable for Indoor Switchgear Panel Operation guideline / OEM manual.	Accepted
for 11KV Indoor Switchgear Panel, Clause no	Peak withstand current rating : 66kA	Peak withstand current 62.5kAp for 25kA system	Accepted
ons for 11KV Indoor Switchgear Panel, Clause no	Temperature Rise : The maximum permissible temperature for bus bar shall be 90 deg C at an ambient temperature not exceeding 40 deg C, as per IEC 694. However, the temperature rise for accessible enclosures and covers shall not exceed 30K and in case, they are not required to be touched during normal operation, the limit shall be raised by 10K	Temperature rise will be as per IEC 694 over ambient temperature 40 Deg C	Temp rise shall be as per IEC 694
itions for 11KV Indoor Switchgear Panel, Clause no	Size of XLPE cables : 2/3 runs of single core 630 Sqmm per phase. TBD during detail e	Please inform Cable Runs for Icomer & Out going Panels for all switchboards under this Tender, otherwise we presume that max run & size will be 2 runs of single core 630 Sqmm per phase.	Cable shall be 3R 1C 630 SQMM
ons for 11KV Indoor Switchgear Panel, Clause no	CT Ratio, accuracy class , ISF : 800-1200-1600/ 5-5-5A, Metering Class 0.2S	Dual Ratio CT (e.g. 1600-800/5; 1200-600/5A, 800-400/5A) has been proposed. Metering accuracy class will be 0.2, ISF will be as per manufacturer design looking to the instrument application.	Please follows tender Specification. Further discussion may be done in Detailed Engineering
ons for 11KV Indoor Switchgear Panel, Clause no	Anti Pumping Relay , TCS Relay; DC Fail Relay	Antipumping Relay & DC Fail relay will be achieved via control relay of OEM make. TCS will be part of main Numerical Relay hence separate Electromechanical relay will not be applicable.	Antipumping Relay and TCS should be Independent and Separate

Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
ifications for 11KV Indoor Switchgear Panel, 5	Panels shall have structural steel framework enclosed on all sides and top by CRCA sheet steel of minimum thickness as specified below: • Frame: 3 mm • Doors & Covers: 2 mm • Removable gland plate: 3 mm	It will be as per OEM's standard design. (The basic Panel will be made of Aluznic coated sheet metal, Front / Rear Door & Cover will be painted CRCA. The thickness of various portion will be as per OEM's design requirement)	Accepted, With supporting Type Tests
ifications for 11KV Indoor Switchgear Panel, 5	All doors, cutouts and removable covers shall be gasketed all round by neoprene cork gaskets.	Application & selection of Gasket will be as per OEM's design requirement.	Accepted, With supporting Type Tests
ifications for 11KV Indoor Switchgear Panel, 5	h) All the HV design shall ensure conformity to Annex- A of IEC-62271-200 and must be Type tested for Internal Arc Test. The supplier shall submit Type Test report from CPR I/ERDA to prove the above.	Type test report from any reputed International laboratory should be also accepted.	Noted
ifications for 11KV Indoor Switchgear Panel, 5	i) Degree of Protection for the enclosure and the partitions shall be IP4X	otection for the enclosure shall be IP4X & partitions	Outer IP should be min IP4X
ifications for 11KV Indoor Switchgear Panel, 5	j) It is preferred to have condition based monitoring in switchgear using Heat and Humidity sensors in Bus-Bar , Breaker and Cable Compartments. These sensors should be integrated with RTUs/ SCADA using wireless communication.	It is mentioned as preferred, Hence is it not mandatory scope of Tender. The clarity of expectation interm of condition base monitoring will be required.	PI consider this clause as void. We don't require it.
ifications for 11KV Indoor Switchgear Panel, 5	o) Wherever CB contacts are to be multiplied, latch type relay shall be used for contact multiplication.	It will be achived via control relay / contactor of OEM make	Accepted
ifications for 11KV Indoor Switchgear Panel, 5	p) Fuse failure relay and trip circuit supervision relay shall be suitably selected	It may be part of main numerical relay.	PT fuse failure to be addressed by MCB with Aux contact for FFR and Separate TCS relay is required
ifications for 11KV Indoor Switchgear Panel, 5	q) Capacitor bank switching device shall be provided with suitable gate interlock mechanism with castle key along with timer to ensure safety.	Capacitor feeder will have also VCB. The requirement of switching device to be clarified.	Capacitor Bank Feeder not to be considered.
ifications for 11KV Indoor Switchgear Panel, 5	to Interchange vacuum interrupters of incomer CB with other outgoing CB & vice versa. For each Switchboard one no.1250A & one no. 630A CB handling trolleys shall be supplied.	vacuum interrupters could be interchange with same rating breakers irrespect of Incomer or Outgoing	We believe interrupters are same in all rating VCBs
ifications for 11KV Indoor Switchgear Panel, 5	5.4 CURRENT TRANSFORMER The Current Transformers shall be of Epoxy Cast Resin Type with Window type construction	CT will be wound type / window type as per OEM design	PI follow tender specification
ifications for 11KV Indoor Switchgear Panel, 5	VT's mounted on circuit breaker truck shall not be accepted.	Line VT will be mounted in Incomer Breaker Truck.	Not accepted. Separate Bus PT Panel is required PT power pack is required for IC for DC change over scheme which will ultimately come in action when station DC is failed. This will engerise the only tripping circuit of the breaker and ensure tripping of the breaker in case of any fault during DC failure of station.
ifications for 11KV Indoor Switchgear Panel, 5	5.12 PANEL WIRING: All wiring shall be carried out with 1100 V grade, single core stranded copper conductor wires with PVC insulation. The minimum size of the stranded copper conductor used for panel wiring shall be as follows: i) All circuits except CT circuits: 2.5 mm ² per lead ii) CT circuits: 4 mm ² per lead iii) PT circuits: 4 mm ² per lead	It will be multi strand copper wire, CT/PT circuit will be with 2.5 sqmm, Other 1.5 sqmm , Internal Circuit breaker wiring as per OEM's design.	Accepted
ifications for 11KV Indoor Switchgear Panel, 5	e) Wire terminations shall be made with solder less crimping type of (ring type lugs for all CT and PT circuits and pin type lugs for other circuits) tinned copper lugs which firmly grip the conductor and insulation.	Fork & pin type lugs will be used as per OEM's wiring requirement.	Tinned copper ring type lugs with PVC insulation for all CT and PT circuits and othe circuit also.
ifications for 11KV Indoor Switchgear Panel, 5	5.14 LABELS & 6 NAMEPLATE & MARKINGS	Labels, Name Plate & Marking will be as per OEM's design	PI follow tender specification
ifications for 11KV Indoor Switchgear Panel, 5	b) An earthing conductor of 40x10 sq mm Cu (minimum).	Earth bus size 30x6 sqmm as per OEM design	PI follow tender specification
ifications for 11KV Indoor Switchgear Panel, 5	5.16 PAINTING :.... an established painting procedure like electrostatic painting shall be followed for powder coating the panel. The colour shade shall be Siemens grey RAL 7032.	Basic Panel will ne Aluznic coated metal sheet, Front / Rear door / Cover will be painted CRCA with RAL 9003 in line with OEM's standard practice.	As per TS
ifications for 11KV Indoor Switchgear Panel, 5	5.19 DATA CONCENTRATOR	Please clarify the scope of Data Concentractor	As per TS
ifications for 11KV Indoor Switchgear Panel, 5	5.20 CONTROL, METERING AND PROTECTION Incomer switchgears should be provided with separate protection unit and separate metering & control unit. Outgoing feeder switchgears (including switchgears for capacitor & local transformer) should be provided with combined protection, metering & Control unit.	Presume that all control, metering & protection instrument will be part of Instrument chamber mounted over VCB Panel. Any separate control Panel is not considered in scope.	Metering and Protection in one panel.
ifications for 11KV Indoor Switchgear Panel, 5	7. TESTS :.... IS. All the Type Tests as per latest IS / IEC should have been carried on the switchgear. For Type test of Numerical relays, control IEDs, and communication equipment, and Factory acceptance test, Hardware Integration test and Integration System tests	Any Type Test or any special Type test are not considered.	Special Type Tests are not Mandatory.
ifications for 11KV Indoor Switchgear Panel, 5	Routine Test: Partial Discharge Measurement	Performing of Partial discharge measurement in routine test is not considered.	PD test is not mandatory.
ifications for 11KV Indoor Switchgear Panel, 5	12 PACKING Supplier shall ensure that all equipment covered under this specification shall be prepared for rail/road transport (local equipment) and be packed in such a manner as to protect it from damage in transit	Standard Packing as per OEM practice has been considered for Indoor switchgear Panel considering Indoor storage.	Accepted
ifications for 11KV Indoor Switchgear Panel, 5	Spares & Accessories, Training	Please clarify whether spares are included in scope. Presently supply of any spares & training are not considered as per Tender scope.	20% Spare, Training to be provided
ifications for 11KV Indoor Switchgear Panel, 5	17.2 The Bidder shall give an assurance that special maintenance tools & tackles and spares will continue to be available through the life of the equipment, which shall be 25 years minimum.	Looking to technical & manufacturing evolution & application, availability of spares for 25 years could not be concluded now, presently 10 years could be commented.	As per TS

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LC-028; Section A ; Section B ; Section C & S	Scope of Work for Substation Automation System	Please clarify Scope of Substation Automation System, Whether any RTU / SCADA/ Data Center supply & installation will be in scope or not. Integration with any existing new RTU / SCADA system is not considered in scope. Communication establishment with any central RTU / SCADA is also not considered in scope.	RTU integration in supplier's scope
	Access for Site Completion & handover	Necessary Site & Material access will be provided by customer to perform Installation & commissioning within 3 months from delivery. The delay beyond the same due to site access / readiness will attract additional price implication. Site planning will be informed by TPCODL before contract. Any site readiness will be intimated by TPCODL at least 1 month advance after receipt of materials.	Accepted
33/11KV Substation Protection System; point no. 4.2 , General System Design	Thus, protection and control devices connected to the process bus register electric processes as sampled signals of currents and voltages in the same way as if the analog-to-digital conversion was carried out directly in the relay. The digital communication is realized through redundant RJ45. According to IEC 61850-9-2LE, the packet transmitted includes one sample of each of the three phase currents and three phase voltages, as well as current and neutral voltage. Most filtering algorithms are designed for equal distribution of samples on the time axis and are very sensitive to the loss of even one of them, Under such conditions the relay must take special actions like computing the sample missed.	section 4.3.1 relays with CT inputs are mentioned. But here relays with process bus requirement is mentioned. We presume that process bus and merging unit will not be applicable and required since CT inputs shall be directly given to relays. Please confirm.	Process Bus and Merging Unit is not applicable
33/11KV Substation Protection System; point no. 4.2 , General System Design	The IED/ relay should have Protection functions with any settable magnitude of actuating electrical quantity and lowest time delay of 20 ms.	We understand that the time setting of the relay shall be definite time and the available relay shall have the setting range at lowest 30ms and 0 ms as well	Accepted
33/11KV Substation Protection System; point no. 4.2 , General System Design- INPUT & OUTPUTS		Binary input & outputs stated for the required relays are not clear in the above specification	BI/BO quantity and details are clearly mentioned.
33/11KV Substation Protection System; point no. 4.2 , General System Design- Diagnostic capability of IED	Forcing of all kinds of protection functions Forcing of all IED's. Relay should be reboot from the relay key and through software also	what is meant by forcing of protection function and IEDs mean, kindly clarify the purpose too. Software based forced restart can only be provided please accept	As per TS
33/11KV Substation Protection System; point no. 4.2 , General System Design- SOFTWARE	The number of program generated input and output to be framed by bidder. Minimum number for both are 32 respectively.	what is meant by program generated input and output	Apart from physical BO & BI of the relay, these are program generated BO & BI.
33/11KV Substation Protection System; point no. 4.2 , General System Design- SOFTWARE	The relays provided should comply with Indian or international standards of cyber security like NERC CIP / BDEW / IEEE 1686 or equivalent for cyber security to provide protection against unauthorized disclosure, transfer, modification, or destruction of information and/or information systems, whether accidental or intentional.	It is mentioned as " Device to have minimum 3 level of security with user ID and password protection to access device from configuration, parameterization, accessibility, 61850 configuration & event or oscillography downloading" so upon that is it mandatory to provide advance Cybersecurity with NERC CIP / BDEW / IEEE 1686 or equivalent as the above mentioned in the enclosed braces is almost sufficient for MV level distribution grid	Yes, it is required
33/11KV Substation Protection System; 4.3.1.2	Detailed Technical Specifications of Protections [O/C & E/F] of 11kV & 33kV Lines, Transformers, Bus Couplers And Bus Sections	DI/DO requirement not clear	DI/DO quantity and details is available in Specification
33/11KV Substation Protection System; 4.4.1.2	Detailed Technical Specifications of 33kV & 11kV Power Transformer Main Protection — Transformer Differential Protection (871)	DI/DO requirement not clear	DI/DO quantity and details is available in Specification
33/11KV Substation Protection System; 4.4.5	Detailed Technical Specification of 11 KV O/G Feeder	DI/DO requirement not clear	DI/DO quantity and details is available in Specification
33/11KV Substation Protection System; 4.4.6	Detailed Technical Specification of 33kV/11KV Capacitor Bank Protection	DI/DO requirement not clear	DI/DO quantity and details is available in Specification

Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response																											
33/11KV Substation Protection System ; point no . 4.2 , General System Design- SNMP	SNMP: The IED should be communicated by remote servers through the gateway configured in the IED. <ul style="list-style-type: none"> Web HMI should be made available in the relay so that relay can be accessed from remote from computer browser. The web HMI should facilitate every possible access which can be done from relay fascia In the relay front there shall be a must control authority in terms of LOCAL and REMOTE either by lock and key or by any fascia button (which can also be initiated by Binary or digital input) so that on choosing LOCAL it does not accept any remote command. 	SNMP: Simple Network Management Protocol (SNMP) is a networking protocol used for the management and monitoring of network-connected devices in Internet Protocol networks. this protocol is not embedded in the relay, where as the the proposed points stated under the section of SNMP can be provided with the relay as SNMP actually doesnot denote these fuctions.	SNMP and other features are required																											
Protection System ; point 4.2 INPUTS A	<table border="1" data-bbox="808 357 1032 416"> <thead> <tr> <th rowspan="2">Voltage Level</th> <th colspan="3">Conventional Substation</th> <th colspan="3">Digital Substation</th> </tr> <tr> <th>BCPU</th> <th>PU</th> <th>BCPU</th> <th>PU</th> <th>BCPU</th> <th>PU</th> </tr> </thead> <tbody> <tr> <td>11kV</td> <td>RD-10</td> <td>RD-10</td> <td>RD-10</td> <td>RD-10</td> <td>RD-10</td> <td>RD-10</td> </tr> <tr> <td>230kV</td> <td>RD-24</td> <td>RD-10</td> <td>RD-10</td> <td>RD-24</td> <td>RD-10</td> <td>RD-10</td> </tr> </tbody> </table> <p data-bbox="808 411 1144 432">Note: For GIS Panels BIBO requirement shall be higher and OEM shall provide accordingly. GIS Bus PT and Bus Earthing Switches shall have its control from BCPU of Bus Coupler CRP Only.</p>	Voltage Level	Conventional Substation			Digital Substation			BCPU	PU	BCPU	PU	BCPU	PU	11kV	RD-10	RD-10	RD-10	RD-10	RD-10	RD-10	230kV	RD-24	RD-10	RD-10	RD-24	RD-10	RD-10	the refered BI/BO list mentioned is not clarifying the requirement of BIBO according to the feeders , it is also stated in the protection control philosophy of 4.3.1 that the required BI/BO is 15/15. Kindly clarify which one to be considered ,	PI refer the table
Voltage Level	Conventional Substation			Digital Substation																										
	BCPU	PU	BCPU	PU	BCPU	PU																								
11kV	RD-10	RD-10	RD-10	RD-10	RD-10	RD-10																								
230kV	RD-24	RD-10	RD-10	RD-24	RD-10	RD-10																								
Standard Technical Query		Any Adaptor panel for extension of any existing Panel is not considered in scope.	Accepted																											
Standard Technical Query		Any minor works like earthing connection, control cable termination, AC DC supply extension etc are not part of scope	It shall be in Bidder's scope																											
Standard Technical Query		Any requirement of top cable entry or connection thru bus duct.	No																											
Standard Technical Query		The requirement if any and lenth of FO canble / Cat-6 Cable if required	No																											
Standard Technical Query		Whether for iFAT if require, RTU shall be provided by TPCODL, thru remote access.	For discussion																											
Standard Technical Query		Any Ethernet Switch is no considered in scope.	Accepted																											
Standard Technical Query		Please clarify whether PD sensors are required in Cable chamber.	Not required																											
Standard Technical Query		Control panel shall be mounted on the top of the panell and we understood that there is no requirement of separate CRP with any panel - Please confirm.	Noted																											
Standard Technical Query		Suitable access for movement of panels from Grid main gate to the place of installtion shall be in TPCODL's scope.	Accepted																											
Standard Technical Query		Kindly confirm the surge arrester requirement if any	Not required																											
Standard Technical Query		we have not considered any indication for cable or line charge in the panel	Not required																											
Standard Technical Query		We are not envisaged our asset monitoring system & algorithm for any new or any other panels.	Ok																											
Standard Technical Query		Any Dummy Panel is not considered in scope.	Ok																											

Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
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