Tender Ref.: TPCODL/P&S/1000000273/2022-23					
Scope: 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**	**Remarks - Query**	**TPCODL Reply**
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	TPCODL will reply on the same	Not in Bidder's scope of supply.
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	We request to accept combined protection unit and separate metering & control unit for outgoing.	Accepted	All CONTROL, METERING AND PROTECTION of VCB panel will be mounted in the instrument chamber / LT chamber of respective VCB Panel. Separate replay and metering and control panel will not be applicable.	Metering & Protection can be in one unit to be installed in LT Compartment
(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.	Not in bidder's scope of supply.	We shall share details. No deviations allowed.	Supply of any RTU panel is not in the scope of bidder but bidder need to do the physical hook up with the new RTU or existing RTU if same is available during VCB panel commissioning. However control or communication cable or any require accessories and necessary drawings will be provided by TPCODL.	Cable in TPCODL Scope.Laying in TPCODL Scope .All Terminations in Bidder's scope
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	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	Understand the scope as PT secondary will control by MCB and fault/ fail ware will be achieved by add on contact of MCB.	Inbuilt FF functionality is acceptable. PT circuit MCB also needs to be monitored by using aux. wired to the DI of main relay. TCS should be provided seperately.
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	Quantity is not mentioned in tender documents & BOQ. Plaese 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	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	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	Test is not mandatory		
	d) Tests to detect certain defects in the solid insulation of the equipment by the	We will provide type test reports of CTs, PTs &	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.		
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 .	Specification having specification no ENG-ELC- 033 ENG-ELC-028 is not available in provided specification. Pleaes provide the same.	Shall be provided	Please share - ENG-ELC-028	Available in tender Spec
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/rt3 Secondary winding(s) : 110V/rt3-110V/rt3 Core-1 :	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 reqired 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.	Bus PT separate panel & Line PT will mount on the incomer VCB trolley of Incomer.	Bus PT in Separate Panel. Line PT Mounted on Incommer Breaker Trolley or independent
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.			Power Pack against one Line PT may meet the requirement of one Incomer VCB Panel, not entire bus-section.	Required only for Incommers
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	Pleaes provide detail specification for Humidity sensors.	Following Clause stands void.		
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	As per BOQ no requirement for VCB panel cofiguration in switchboard for capacitor bank. This clause will be not applicable	Capacitor bank not considerd		
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 &	Please provide below documents ENG-ELC-033 & ENG-ELC-028 For constructional and other requirements.	Shall be shared	Please share - ENG-ELC-028	Available in tender Doc
5.4 CURRENT TRANSFORMER (Page 16 of 38)	The physical location of CT core for differential protection shall be near BUS to have overlapping protection different zone. The additional auxiliary	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	We required 2 Independent CTS (One for Metering/Protection), One for Differential in I/C and Bus coupler Feeder. Details shall be shared in detailed		
5.6 RELAYS (Page 17 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	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	Our VCB Panels are type tested with material CRCA sheet. This clause not applicablel for CRCA. Kindly confirm	CRCA is accepted as per Tender Spec		
5.18 SYSTEM ARCHITECTURE AND COMMUNICATION - (Page 24 of 38)	5.18 SYSTEM ARCHITECTURE AND COMMUNICATION - The bidder shall refer to ENG-ELC-033 & ENG-	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		
5.19 DATA CONCENTRATOR (Page 24 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	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	TPCODL need to reply on detail scope	Data Concentrator not in Bidder's scope of supply
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	We request to accept combined protection unit and separate metering & control unit for outgoing.	Accepted		
(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.	Not in bidder's scope of supply.	We shall share details. No deviations allowed.	Supply of any RTU panel is not in the scope of bidder but bidder need to do the physical hook up at local substation with the new RTU or existing RTU if same is available during VCB panel commissioning. However control or communication cable or any require accessories and necessary drawings will be provided by TPCODL.	Accepted
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	Accepted		
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		
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	Quantity is not mentioned in tender documents & BOQ. Plaese 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	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	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	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	Not a Mandatory Test		
	d) Tests to detect certain defects in the solid insulation of the equipment by the	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 exsisting 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 exsisting RTU / SCADA (In Bidder's scope)** k) **connecting or establishing control from outside 33KV trafo to Xmer control (In bidder's scope)**	Point no - e: Necessary Documents: will share foundation requirement /GA drawings of VCB panels board. Point no- g: - Supply / Laying of Power & Control Cable, communication cables, Cable/ termination kits/ Lugs etc. not in bidder scope. Point no- j: only hooking at local level. but supply & installation of any softwire is not in our scope. necessary drawing and support from RTU's OEM must be available at TPCODL end. Point no- K: understand the supply and laying of any control cable from transformer to VCB panel is not in bidder scope. hence pls clarify the scope.	PI refer detailed scope Matix uploaded
ENQUIRY TPCODL/P&S/1000000273/2022-23 , Clause 2.2, 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	Taxes / Duties will be charged extra as per satutory guideline during time of invocing to TPCODL	Shall be as per compliance required		
ENQUIRY TPCODL/P&S/1000000273/2022-23 ,	3.5 Period of Validity of Bids Bids shall remain valid for 180 days from the due	Contract will be awarded within 30 days from RA. RA date will be considered as zero date	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	Type test report will be more than 5 years old for similar baisc 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.		
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)	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	Request to review the point looking to the current supply chain condition. We have purpose the delivery term inline with TPDDL Delhi RC case.	As per Tender Spec
ENQUIRY TPCODL/P&S/1000000273/2022-23 ,	7.4 Warranty Period Applicable as per Annexure-II Technical	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	Tender documents showing two different clauses, pls conform.	As per Technical Spec of Tender Doc
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				
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				
ENQUIRY TPCODL/P&S/1000000273/2022-23 Clause no. 7.5, Page#13 ; GCC , Clause	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	This clause is not acceptable and bis 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 monitered by TPCODL Engineer-In-Charge	Request to accept our point inline to TPDDL.	As per Tender Doc
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	Pls conform the MOQ	As per Tender Doc
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		
15.0 GCC	15.0 LIQUIDATED DAMAGES 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	Our bid is subject to acceptance of following: 1. LD shall only be levied on individual PO value. 2. LD shall be levied on supply and services portion separately as coming into force for service portion is after site clearance by TPCODL. 3. Deduction of LD from any other contract is not acceptable	Shall be as per tender LD clause		
15.0 GCC	LIQUIDATED DAMAGES 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	We propose 0.5% per week of undelived portion of respective order to max 5% of respective PO / RO	Shall be as per tender LD clause		
4.2 GCC	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	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.~~	This shall be as per GCC Clause		
14.3 GCC	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	Clause is not acceptable and bid is submitted accoridngly. 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	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	Our bid is subject to acceptance of following indemnity clause instead of what is mentioned in TPCODL GCC. 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. 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	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		
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 longstop 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.	PIs adhere the tender norms		
Additional Clause	Suspension rights for vendor.	Vendor 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 assiging 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	Termination by the Seller The Seller can terminate/ cancel the Contract with prior written notice of 30 days tothe Buyer for any of the following reasons:- 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	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 assiging 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	Termination of contract without assiging 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-Incharge		
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	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 / suppliers back also	PIs 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 requirment		
ations for 11KV Indoor Switchgear Panel, Clau	3. CLIMATIC CONDITIONS OF THE INSTALLATION: TPCODL service area has heavy saline conditions along the coast and High cyclonic Intensity winds with speed	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	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	Temperature rise will be as per IEC 694 over ambient temperature 40 Deg C	Temp rise shall be as per IEC 694		
tions for 11KV Indoor Switchgear Panel, Clau	ils 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, Claus	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	Please follows tender Specification. Further discussion may be done in Detailed Engineering	TPCODL will reply on the same	For 2000 Amp Dual Ratio CT may be accepted1600-1000/5-5 Other parameters being same.
ions for 11KV Indoor Switchgear Panel, Claus	Anti Pumping Relay , TCS Relay, DC Fail Relay	Antipuming Relay & DC Fail relay will be achived 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		
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	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	Application & selection of Gasket will be asper OEM's design requirement	Accepted, With supporting Type Tests		
ifications for 11KV Indoor Switchgear Panel,	h) All the HV design shall ensure conformity to Annex- A of IEC-62271-200 and must be Type	Type test report from any reputed Internation laboratory should be also accepted.	Noted		
ifications for 11KV Indoor Switchgear Panel,	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,	j) It is preferred to have condition based monitoring in switchgear using Heat and Humidity sensors in Bus-Bar, Breaker and Cable	It is mentioned as preferred, Hence is it not mandatory scope of Tender. The clarity of expectation interm of condition base	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 OEM make	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		
ifications for 11KV Indoor Switchgear Panel, 5	q) Capacitor bank switching device shall be provided with suitable over-voltage protection	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	vacuum interrupters could be interchange with same rating breakers irrespect of Incomer or	We believe interrupters are same in all rating VCBs	VI will be designed as per the rating of the respective rating	Accepted
cifications for 11KV Indoor Switchgear Panel,	5.4 CURRENT TRANSFORMER The Current. Transformers shall be of Epoxy	CT will be wound type / window type as per OEM design	PI follow tender specification		
cifications for 11KV Indoor Switchgear Panel,	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 reqired 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.	Bus PT separate panel & Line PT will mount on the incomer VCB trolley of Incomer.	Bus PT in Separate Panel. Line PT Mounted on Incommer Breaker Trolley or independent
ications 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	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 OEMs design.	Accepted		
ications 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	Fork & pin type lugs will be used as per OEM's wiring requirement.	Tinned cupper ring type lugs with PVC insulation for all CT and PT circuits and **othe circuit also.**		
fications 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	it will as per the OEM design however switcboard no, purchase order no will be part of this leveling .	PO No, Manufacturing Date, Property of TPCODL
fications 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	it will as per the OEM design if require bidder will share the back up calculation.	Detail Calculation is required
cifications for 11KV Indoor Switchgear Panel,	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	Basic Panel will ne Aluznic coated metal sheet, Front / Rear door / Cover will be painted CRCA in line with OEM's standard practice.	Accepted
cifications for 11KV Indoor Switchgear	5.19 DATA	Please clarify the scope of Data Concentractor	As per TS		
cifications for 11KV Indoor Switchgear Panel,	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 pannel.	All CONTROL, METERING AND PROTECTION of VCB panel will be mounted in the instrument chamber / LT chamber of respective VCB Panel. Separate replay and metering and control panel will not be applicable.	Metering and Protection in one LT Compartment
ecifications for 11KV Indoor Switchgear Pane	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	Any Type Test or any special Type test are not considered.	Special Type Tests are not Mandatory.		
ecifications for 11KV Indoor Switchgear Pane	Routine Test: Partial Discharge Measurement	Performing of Partial discharge measurement in	PD test is not mandatory.		
ecifications for 11KV Indoor Switchgear Panel	12 PACKING Supplier shall ensure that all equipment covered under this specification shall be prepared for	Standard Packing as per OEM practice has been cosnidered for Indoor switchgear Panel considering Indoor storage.	Accepted		
ecifications for 11KV Indoor Switchgear Panel	Spares & Accessories, Training	Please clarify whether spares are included in scope. Prsently supply of any spares & training are not considered as per Tender scope.	20% Spare, Training to be provided		
cifications for 11KV Indoor Switchgear Panel,	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	Looking to technical & manufacturing evolution & application, presently availability of spares for 10 years are there, TPCODL will reply on the same.	Discussion
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	Supply of any RTU panel is not in the scope of bidder but bidder need to do the physical hook up with the new RTU or existing RTU if same is available during VCB panel commissioning. However control or communication cable or any require accessories and necessary drawings will be provided by TPCODL.	RTU not in scope of Bidder, Only Hook up with Existing SCADA is in Bidder'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 inplication. 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	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	Accepted		
33/11KV Substation Protection System; point no . 4.2 , General System Design-		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 LED's. Relay should be reboot from the relay key and through software also	what is meant by forcing of protection fuction and leds mean, kindly clarify the purpose too. Software based forced restart can only be provided please accept	As per TS	TPCODL need to reply on detail scope	Functionality should be made available through keys & software.
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.	To understand the requirement, we are assuming that the program generated I/O s are referred to as Virtual inputs/outputs &logic outputs	Yes
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	we propose cyber security with 3 level password protection (user, operator , configurator level . Kindly accept).	Yes, 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	Please state the min BI/BO requirement for the the specific feeders which is mentioned in the I/O list, Also please share the previously used models so as to understand the DI/DO requirements accurately	Refer Tender Spec
33/11KV Substation Protection System; 4.4.1.2	Detailed Technical Specifications of 33kV & 11kV Power Transformer Main Protection — Transformer Differential Protection (87I)	DI/DO requirement not clear	DI/DO quantity and details is available in Specification		Refer Tender Spec
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		Refer Tender Spec
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		Refer Tender Spec
	SNMP: The IED should be communicated by remote servers through the gateway configured in the IED. • 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 ority in terms of LOCAL and REMOTE either ck and key or by any fascia button (which can be initiated by Binary or digital input) so that	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 embeded in the realy, where as the the proposed points statedunder the section of SNMP can be provided with the relay as SNMP actually doesnot denote these fuctions.	SNMP and other features are required	The mentioned features in the clause under SNMP can be complied .	Required.
tation Protection System ; point 4.2 INPUTS A		the refered BI/BO list mentioned is not clarifing 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	PI refer the table		
	Standard Technical Query	Any Adaptor panel for extension of any exisisting 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	Supply & laying of any control cables are not in the part of bidder scope	Supply and Laying of Cable in supplier's scope. Termination 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 -	Noted		
	Standard Technical Query	Suitable access for movement of panels from Grid main gate to the place of installtion shall be in	Accepted		
	Standard Technical Query	Kindly confirm the surge arrestor 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	Ok		
	Standard Technical Query	Any Dummy Panel is not considered in scope.	Ok		
				Traning requirement need to clear. Please inform total traning requirement / expectation against this tender. Presume traning will be single time after supply of all Lots of RC.	On-Site training (2 Days)
				After commissioning, any upgradation of system / software are not considere d in scope.	Accepted
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	TPCODL will reply on the same	As per specification. Configuration logic can be decided during detailed engineering or commissioning.
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 applicablel 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		