

**Prebid Queries Response . - TPCODL/CCG/2024-25/100002368 (11kV Indoor Switchgear)**

Sl. No.	Tender Reference (Document name/Page no./Clause no./Clause name)	Description as per Bid Document	Pre-Bid Query raised by Bidder	CCG/CEG Response																																																																														
1	BOM/Lot -1 (11 KV Indoor Switchgear Panel)	<table><tr><td>1</td><td>Lot -1 (11 KV Indoor Switchgear Panel)</td><td>UOM</td><td>TPCODL</td><td>TPNODL</td><td>TPWODL</td></tr><tr><td>a</td><td>11KV Incomer -1250 A with control panel &amp; Relay suitable for Power Transformer</td><td>EA</td><td>5</td><td>14</td><td>2</td></tr><tr><td>b</td><td>Bus Riser cum 11KV 3phase Bus PT suitable for 1250 A Bus bar</td><td>EA</td><td>5</td><td>8</td><td>1</td></tr><tr><td>c</td><td>11KV Bus Coupler- 1250 A with control panel &amp; Relay</td><td>EA</td><td>5</td><td>8</td><td>1</td></tr><tr><td>d</td><td>11KV Outgoing breaker- 1250 A with control panel &amp; Relay for Feeder protection</td><td>EA</td><td>5</td><td>38</td><td>4</td></tr><tr><td>e</td><td>11KV 3phase 1250A Bus PT Panel</td><td>EA</td><td>5</td><td>6</td><td>1</td></tr><tr><td>f</td><td>11KV 3Phase 1250A Adapter Panel</td><td>EA</td><td>1</td><td>6</td><td></td></tr><tr><td>i</td><td>11KV Incomer -2000 A with control panel &amp; Relay for Power Transformer</td><td>EA</td><td>6</td><td>0</td><td></td></tr><tr><td>j</td><td>Bus Riser cum 11KV 3phase Bus PT suitable for 1250 A Bus bar</td><td>EA</td><td>6</td><td>0</td><td></td></tr><tr><td>k</td><td>11KV Bus Coupler- 1250 A with control panel &amp; Relay</td><td>EA</td><td>6</td><td>0</td><td></td></tr><tr><td>l</td><td>11KV Outgoing breaker- 630 A with control panel &amp; Relay for feeder protection</td><td>EA</td><td>51</td><td>0</td><td></td></tr><tr><td>m</td><td>11KV 3phase 2000A Bus PT panel</td><td>EA</td><td>6</td><td>0</td><td></td></tr><tr><td>o</td><td>11KV 3 Phase 2000A Adapter Panel</td><td>EA</td><td>3</td><td>0</td><td></td></tr></table>	1	Lot -1 (11 KV Indoor Switchgear Panel)	UOM	TPCODL	TPNODL	TPWODL	a	11KV Incomer -1250 A with control panel & Relay suitable for Power Transformer	EA	5	14	2	b	Bus Riser cum 11KV 3phase Bus PT suitable for 1250 A Bus bar	EA	5	8	1	c	11KV Bus Coupler- 1250 A with control panel & Relay	EA	5	8	1	d	11KV Outgoing breaker- 1250 A with control panel & Relay for Feeder protection	EA	5	38	4	e	11KV 3phase 1250A Bus PT Panel	EA	5	6	1	f	11KV 3Phase 1250A Adapter Panel	EA	1	6		i	11KV Incomer -2000 A with control panel & Relay for Power Transformer	EA	6	0		j	Bus Riser cum 11KV 3phase Bus PT suitable for 1250 A Bus bar	EA	6	0		k	11KV Bus Coupler- 1250 A with control panel & Relay	EA	6	0		l	11KV Outgoing breaker- 630 A with control panel & Relay for feeder protection	EA	51	0		m	11KV 3phase 2000A Bus PT panel	EA	6	0		o	11KV 3 Phase 2000A Adapter Panel	EA	3	0		<p>1. Please provide discom wise panel board configuration for TPCODL, TPNODL, and TPWODL.</p> <p>2. The ratings and quantities for the cable earthing truck and bus earthing truck are not mentioned in the BOQ. Kindly confirm the required quantity and rating for both.</p>	<p>Please refer revised BOM for Bidding purpose. Panel/ Board Wise Requirement shall be shared along with Release Order.</p>
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2	BOM/Lot -1 (11 KV Indoor Switchgear Panel)	f. 11kv 3Phase 1250A Adapter Panel	<p>1. Kindly confirm the exact purpose of the adapter panel and whether it is intended to be coupled with the existing panel.</p> <p>2. If it is required to be coupled with the existing panel, we request a detailed cross-sectional drawing of the existing panel, including all relevant dimensions such as phase-to-phase and phase-to-earth clearances. This information is essential to assess the technical feasibility of the inter-panel coupling arrangement.</p> <p>3. Kindly inform us whether the inter-panel coupling between the existing panels and the new panel will be carried out using busbars or cables.</p>	<p>1.Yes , adopter Panel should have the flexibility to couple with existing Panel board of other make of Switchgear make Busbar.</p> <p>2.Existing Panel details shall be shared post bide of tender</p> <p>3.With Busbars Only</p>																																																																														
3	BOM/Lot -1 (11 KV Indoor Switchgear Panel)	g. Spare Breaker	There are three different current rating of breaker i.e. 2000A, 1250A & 630. Kindly inform the current rating wise quantity of each of spare breaker	It would be 1250 rating VCB that is interchangeable for both 11 kV INC and 11 kV OG feeder. , however the same might be changed as per actual requirement.																																																																														
4	BOM/Lot -1 (11 KV Indoor Switchgear Panel)	i. 11KV Incomer -2000 A with control panel & Relay for Power Transformer	The specifications for the 2000A control panel have not been provided. Kindly share the same.	Shall be provided																																																																														
5	BOM/Lot -1 (11 KV Indoor Switchgear Panel)	o. 11KV 3 Phase 2000A Adapter Panel	<p>1. Kindly confirm the exact purpose of the adapter panel and whether it is intended to be coupled with the existing panel.</p> <p>2. If it is required to be coupled with the existing panel, we request a detailed cross-sectional drawing of the existing panel, including all relevant dimensions such as phase-to-phase and phase-to-earth clearances. This information is essential to assess the technical feasibility of the inter-panel coupling arrangement.</p> <p>3. Kindly inform us whether the inter-panel coupling between the existing panels and the new panel will be carried out using busbars or cables.</p>	<p>1.Yes , adopter Panel should have the flexibility to couple with existing Panel board of other make of Switchgear make Busbar.</p> <p>2.Existing Panel details shall be shared post bide of tender</p> <p>3.With Busbars Only</p>																																																																														
6	BOM/Lot -1 (11 KV Indoor Switchgear Panel)	p. Bus bar suitable for 1250Amp for interconnecting between Panels	The main busbar is part of bill of material of the main panel. Kindly clarify whether this requirement 100 Mtrs of loose busbar is as spare.	This will be required when we go for adding existing Panel board with New Panel Board (Panel make may be different or same.)																																																																														
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8	BOM/Lot -1 (11 KV Indoor Switchgear Panel)	<table><tr><td>3</td><td>Mandatory Spares (To be supplied as free item along with Indoor Switchgear as per specification)</td><td></td><td></td><td></td></tr><tr><td>a</td><td>Trip Coil</td><td>EA</td><td>01 with each CB</td><td></td></tr><tr><td>b</td><td>Closing coil</td><td>EA</td><td>01 with each CB</td><td></td></tr><tr><td>c</td><td>Spring charging motor</td><td>EA</td><td>01 upto 5 nos. CB</td><td></td></tr><tr><td>d</td><td>Vacuum interrupter</td><td>EA</td><td>01 upto 5 nos. CB</td><td></td></tr><tr><td>e</td><td>T4-C Switch</td><td>EA</td><td>01 with each CB</td><td></td></tr><tr><td>f</td><td>Local / remote selector switch</td><td>EA</td><td>01 with each CB</td><td></td></tr><tr><td>g</td><td>Tulip/ Finger contact</td><td>EA</td><td>01 upto 5 nos. CB</td><td></td></tr><tr><td>h</td><td>Indication lamps</td><td>EA</td><td>1 set upto 5 nos. CB (R,Y,B,ON/OFF,Trip)</td><td></td></tr><tr><td>i</td><td>Auxiliary switches</td><td>EA</td><td>1 set upto 5 nos. CB</td><td></td></tr><tr><td>j</td><td>LED for cable charge indication</td><td>EA</td><td>1 set upto 5 nos. CB</td><td></td></tr></table>	3	Mandatory Spares (To be supplied as free item along with Indoor Switchgear as per specification)				a	Trip Coil	EA	01 with each CB		b	Closing coil	EA	01 with each CB		c	Spring charging motor	EA	01 upto 5 nos. CB		d	Vacuum interrupter	EA	01 upto 5 nos. CB		e	T4-C Switch	EA	01 with each CB		f	Local / remote selector switch	EA	01 with each CB		g	Tulip/ Finger contact	EA	01 upto 5 nos. CB		h	Indication lamps	EA	1 set upto 5 nos. CB (R,Y,B,ON/OFF,Trip)		i	Auxiliary switches	EA	1 set upto 5 nos. CB		j	LED for cable charge indication	EA	1 set upto 5 nos. CB		<p>As per the tender BoQ (in Excel), it is mentioned that spares are to be supplied as free issue along with the panel and it is also mentioned that these spares are not to be quoted. Therefore, kindly confirm whether these spar items are to be quoted</p>	These are free issued material to be supplied along with Panel as per qty given.																							
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9	Specification No. : ENG-HV-2008 (R01)/3 of 38/1. Scope	Any material or accessories, which may not have been specifically mentioned in the specifications but which are usually necessary for satisfactory, safe, trouble free, operation shall be provided without any extra charges.	In order to avoid ambiguities during order execution, we kindly request you to define all of your items in bill of material of each type of panel at tender stage only.	All remaining details shall be conveyed along with RO, after site visit by BA (as per requirement)																																																																														
10	Specification No. : ENG-HV-2008 (R01)/5 of 38/4. Guaranteed Technical Requirement	4.1.14 Degree of protection for enclosure / partitions/ for meters, relays and BCU - IP 4X/IP 4X/IP 5X or equivalent to completely protect against dust ingress	The panel enclosure complies with IP-5X, internal partitions comply with IP-2X, and meters, relays, and the BCU comply with IP-5X.	Noted																																																																														
11	Specification No. : ENG-HV-2008 (R01)/6 of 38/4. Guaranteed Technical Requirement	4.1.16 Temperature Rise The maximum permissible temperature for bus bar shall be 90 deg C at an ambient temperature not exceeding 50 deg C, . 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.	The temperature rise limits shall comply with IEC standard.	Noted																																																																														
12	Specification No. : ENG-HV-2008 (R01)/8 of 38/4. Guaranteed Technical Requirement	4.6.1 CTs (Cast Resin type) Separate CT Class PS - PS, Vk>500V, Imag<=30mA at Vk/2, Rct< 6 Ohm	The required Vk and RCT values can be compiled only at the higher tapping of the CT. Kindly confirm your acceptance to it.	During Detailed engineering It will be finalised																																																																														

13	Specification No. : ENG-HV-2008 (R01)/8 of 38/4. Guaranteed Technical Requirement	4.9 Digital Multi Function Meter - 1	Please provide detailed specifications for the Multi-Function Meter (MFM).	Preferred Make & Model: 1. Satec make – Pm130 Plus & 2. Secure Make- ( Elite-440)
14	Specification No. : ENG-HV-2008 (R01)/9 of 38/4. Guaranteed Technical Requirement	4.12 Cable charged indication Incomer/Bus-coupler - To be provided by the Bidder	There is no cable in the bus coupler and Bus PT panel; hence, the cable charge indication is not required for the bus coupler and Bus PT panel.	Noted
15	Specification No. : ENG-HV-2008 (R01)/36 of 38/19. Guaranteed Technical Particulars	19.27 Others a) Cable charge indication for all panels		

16	Specification No. : ENG-HV-2008 (R01)/11 of 38/5 General Construction	5.1 Switchgear a) The panels shall be of Metal Clad compartmentalized design with all the High voltage compartments viz. circuit breaker, bus bar, current transformers and voltage transformers separated by metallic partitions.	If the line PT is required in the panel then same can be provided in the breaker compartment. There is no separate PT compartment in our panel design	Line PT is not Required
17	Specification No. : ENG-HV-2008 (R01)/18 of 38/5 General Construction	5.5 Voltage Transformer It shall be mounted on a draw-out type trolley and protected by HRC fuses on both primary and secondary sides.		Noted
18	Specification No. : ENG-HV-2008 (R01)/12 of 38/5 General Construction	5.1 Switchgear d) Panels shall be mounted and bolted to a common base channel. The channel in turn shall be fixed to the foundation bolts at site. All foundation equipment, anchor bolts etc. including the supporting channel shall be furnished by successful bidder in advance for completion of Civil Works prior to dispatch of panels. Cable glands shall be of double compression type 'and made of brass.	1. As per our VCB panel design, a base frame is not required. Please Confirm your acceptance. 2. Power cable glands shall be excluded from scope of supply. Kindly confirm	Noted
19	Specification No. : ENG-HV-2008 (R01)/13 of 38/5 General Construction	5.1 Switchgear e) Isolating switch fuse units shall be provided at the panel for incoming AC and DC supplies.	We will provide MCBs for both AC and DC circuits in the panel. Please confirm acceptance.	MCB with addon block auxiliary contact for relay input is required
20	Specification No. : ENG-HV-2008 (R01)/13 of 38/5 General Construction	5.1 Switchgear i) Provision of louvers for air circulation shall be provided.	Louvers are not required as per our Type Tested design.	Noted
21	Specification No. : ENG-HV-2008 (R01)/13 of 38/5 General Construction	5.1 Switchgear i) Degree of Protection for the enclosure and the partitions shall be IP4X.	The panel enclosure complies with IP-4X, and the internal partitions comply with IP-2X.	Noted
22	Specification No. : ENG-HV-2008 (R01)/14 of 38/5 General Construction	5.1 Switchgear 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.	Kindly confirm whether heat and humidity sensors are required or not. If they are, please provide the detailed specifications for the same.	Heat and humidity sensor are required.
23	Specification No. : ENG-HV-2008 (R01)/15 of 38/5 General Construction	5.1 Switchgear a) 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 the BoQ, the capacitor panel is not required, and therefore the capacitor bank switching device is not applicable. Kindly confirm.	Noted
24	Specification No. : ENG-HV-2008 (R01)/15 of 38/5 General Construction	5.1 Switchgear r) Each switchgear panel shall have 20% spare terminals.	20% spare terminals shall be provided, subject to space availability in the LV compartment.	Required As per TS
25	Specification No. : ENG-HV-2008 (R01)/15 of 38/5 General Construction	5.1 Switchgear s) The bidder shall further refer protection & automation specifications of TPCODL/TPNODL/TPSODL/TPWODL for constructional and other requirements.	Please provide automation specifications of TPCODL/TPNODL/TPSODL/TPWODL for constructional and other requirements. Same is required for relay selection	Shall be shared
26	Specification No. : ENG-HV-2008 (R01)/16 of 38/5 General Construction	5.2 Circuit Breaker b) The 'TRIP' and 'CLOSE' coils shall be of reliable design and low consumption preferably less than 200W.	The trip coils are rated for 250W as per the product design. Kindly accept the same.	CMR with Contact rating 20A is required for closing & Opening and for O/G _Relays to be used for autoreclosing
27	Specification No. : ENG-HV-2008 (R01)/16 of 38/5 General Construction	5.2 Circuit Breaker c) It shall be possible to Interchange vacuum interrupters of incomer CB with other outgoing CB & vice versa.	The breakers of the same rating shall be interchangeable.	Noted, Spare Vacuum interrupter should be provided for all ratings being provided
28	Specification No. : ENG-HV-2008 (R01)/17 of 38/5 General Construction	5.3 Bus-Bars All bus bar joints and all tap-off connections from the main horizontal bus bars shall be provided with removable FRP shrouds.	As per the product design, Polyolefin shrouds will be provided at the main busbar joints. These are more flexible and durable in nature. Kindly accept the same.	Noted
29	Specification No. : ENG-HV-2008 (R01)/17 of 38/5 General Construction	5.4 Current Transformer The Current Transformers shall be of Epoxy Cast Resin Type with Window type construction	We kindly request you to accept the Wound Type CT as an alternative, as some manufacturers offer wound-type designed CTs for lower ratios.	CT's design / type will be accepted on meeting the spec requirement
30	Specification No. : ENG-HV-2008 (R01)/18 of 38/5 General Construction	5.5 Voltage Transformer Bus VT shall be provided in each section. In addition VTs shall be provided on incomer lines as per TPCODL/TPNODL/TPSODL/TPWODL requirements.	Kindly confirm whether line PTs are required in the incomer panel. If yes, please provide the VT ratio, accuracy class, and burden details for the same.	Bus PT is Required but Line PT is Not required
31	Specification No. : ENG-HV-2008 (R01)/18 of 38/5 General Construction	5.6 Relays c) Relays shall support Purchaser's protection philosophy as per protection & automation specifications of TPCODL/TPNODL/TPSODL/TPWODL. However, the substation operation shall comply to the integrated automation requirements with the MASTER SCADA.	Please provide Purchaser's protection philosophy as per protection & automation specifications for : 1. Specific Make and Model of relays 2. No. of required DIs/DOs in relay 3. Communication Protocol 4. Communication Port and its number [i.e. single or dual] 5. Protection functions required in each relay	Shall be shared
32	Specification No. : ENG-HV-2008 (R01)/20 of 38/5 General Construction	5.11 Power & Control Supplies b) If auxiliary voltages other than those specified are required, then necessary arrangement shall be made by the bidder within the panel to obtain the desired voltages by providing step-down transformers and inverter/converter, etc.	Please provide details if required.	Control Voltage (24V/48V_DC) Shall be confirmed by concern TP Odisha DISCOM at the time of release of RO
33	Specification No. : ENG-HV-2008 (R01)/20 of 38/5 General Construction	5.11 Power & Control Supplies d) DC Power Pack to be given to 2 Incomer Panel.	Please confirm the required backup duration for the power pack.	100-150VA Power pack is Required . One trip coil should atleast get Tripped through SCADA while both the battery charger failed to supply DC.If the same trip coil is not tripped within some time delay , command will automatically transferred to second trip coil. 30 Min Back Up is required with considering all the loads of Incomer only.

34	Specification No. : ENG-HV-2008 (R01)/22 of 38/5 General Construction	5.13 Cable Termination Accessories a) The purchasers external cable connections will be terminated on the terminal blocks provided in the control panel. All necessary cable terminating accessories such as gland plates, cable glands, crimp type tinned copper lugs, supporting clamps and brackets, wiring " lugs and gutters etc. for cables shall be included in the bidder's scope of supply.	Power cable Termination and accessories shall be excluded from the Steimec scope.	Noted
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35	Specification No. : ENG-HV-2008 (R01)/23 of 38/5 General Construction	5.15 Earthing c) Earthing trolley shall be provide separately to earth the bus bar and cables adequate interlocking facilities such that earthing trolley can't be 'ON' when bus bar l cable is energized and it should have only mechanical closing facility. The offered trolley shall be of sufficient capacity to carry the current. One bus bar earthing truck & one cable earthing truck shall be supplied per switchboard. In case the sizes are different for Incoming and Outgoing, separate earthing trucks shall be provided.	We will provide Non-Fault Making Type Earthing Trolleys without Audio/Visual Indication.	As per TS
36	Specification No. : ENG-HV-2008 (R01)/24 of 38/5 General Construction	5.16 Painting All sheet steel work shall be phosphate in accordance with the IS: 6005 'Code of practice for phosphating iron and steel'. It should follow the seven tank process. Oil, grease, dirt and scarf shall be thoroughly removed by emulsion cleaning. Rust and scale shall be removed by pickling with dilute acid followed by washing with running water rinsing with a slightly alkaline hot water and drying. After phosphating, thorough rinsing shall be carried out with clean water followed by final rinsing with dilute dichromate solution and oven drying. The phosphate waling shall be sealed with application of two coats of ready mixed, stoved type zinc chromate primer. The first coat may be 'flash dried' while the second coat shall be stoved. Thereafter an established painting procedure like electrostatic painting shall be followed for powder coating the panel. The colour shade shall be Siemens grey RAL 7032.	We will provide a single coat of electrostatic powder coating, followed by the standard 7-tank process, with a minimum paint thickness of 60 microns. Kindly confirm your acceptance.	Noted
37	Specification No. : ENG-HV-2008 (R01)/24 of 38/5 General Construction	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. However, nut, bolts, washer made of stainless steel of grade: 304. The zinc deposition should not be less than 705 grams/meter square of the galvanized surface area/100 microns/6 dips. The zinc coating shall be smooth, continuous and uniform. It shall be free from acid spots and shall not scale, blister or be removable by handling or packing. There shall be no impurities in the zinc or additives to the galvanic bath, which could have a detrimental effect on the durability of the zinc coating. b) After galvanizing no drilling or welding shall be performed on the galvanized parts of the equipment except that nuts may be threaded after galvanizing. c) To avoid the formation of white rust, galvanized material shall be stacked during transport and stored in such a manner as to permit adequate ventilation. Sodium dichromate treatment shall be provided to avoid formation of white rust after hot dip galvanization. The galvanized steel shall be subjected to tests as per IS-2633 and BS:729 amended to date.	We understand that this clause is not applicable to the 11kV VCB Panel. The offered VCB Panel enclosure will be made of mild steel CRCA sheet.	Noted
38	Specification No. : ENG-HV-2008 (R01)/24-25 of 38/5 General Construction	5.18 System Architecture and Communication - 5.19 Data Concentrator 5.20 Control, Metering and Protection 5.21 Remote Monitoring and Maintenance Station 5.22 Control Philosophy 5.23 Operational Philosophy 5.24 Protection Philosophy  The bidder shall refer to protection & automation specifications of TPCODL/TPNODL/TPSODL/TPWODL for new grids based on IEC-61850 protocol for System architecture and communication requirements.	We also understand that clauses 5.18, 5.19, 5.20, 5.21, 5.22, 5.23, and 5.24 are not applicable to Stelmec and also not part of the scope of work.	Noted, However support shall be given by the supplier for remote configuration and for connectivity with existing SCADA System
39	Specification No. : ENG-HV-2008 (R01)/27 of 38/7 Tests	<b>Routine Test:</b> Partial Discharge Measurement <b>Type Tests</b> 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)  <b>Special Type Test</b> 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. c) Tests to detect certain defects in the solid insulation of the equipment by the measurement of partial discharges. e) However, in case any type test is not carried out/ carried out at In-house laboratories, the same shall be decided for acceptance as per the mutual agreement between the Purchaser and Bidder	<b>Routine Test:</b> 1. PD test can be carried out on VCB trolley. Defined max limit is 50pC <b>Type test:</b> e. This is part of routine testing. Hence not separate type test is available f. Not applicable g. Not applicable h. This applies to the relay part. We will provide the relay type test report at the time of execution. <b>Special Type Test</b> a. IP test report can be submitted. b. Not applicable d. We will provide CTs, PTs & insulator type test report at the time of execution. e. Not applicable	Noted
40	Specification No. : ENG-HV-2008 (R01)/28 of 38/8. Type Tests Certificates	The bidder shall furnish the type test certificates for the tests as mentioned above as per the corresponding standards.	We will provide Type Test Reports instead of Type Test Certificates.	Noted
41	Specification No. : ENG-HV-2008 (R01)/33 of 38/19. Guaranteed Technical Particulars	19.1.17 Dimension of Switchboard (Max : W:800mm/D:1850mm	Since two sets of CTs are required in the incomer panel (one for metering & protection, and the other for PS class), the panel depth will be approximately 2400mm. Kindly confirm your acceptance.	Metering, Protection core (SP20) CT and protection CT (PS Class) are separate, P1 of all the CTs should be towards Bus side.
42	General	Extended IAC Duct	The required extended IAC duct to vent out hot gases outside the switchgear room shall not be in Stelmec scope of supply.	Noted
43	General	Ethernet switch	Kindly confirm the scope and specifications of the Ethernet switch.	Not in Bidder's Scope
44	General	Make list	Kindly share the approved make list.	Supplier to take approval during detailed engineering