Name Of Client: BSES Yamuna Power Limited

Product : 11kV, 25kA, 2000A Indoor VCB Panel [IAC 1.0 Sec]

NIT NO: CMC/BY/25-26/RS/SkS/MD/1

Project Name : Survey, Design, Engineering, Supply, Erection, Testing, & Commissioning Of New 11KV Switchgear Panels And Dismantling Of Existing Equipment's On Turnkey Basis At Dwarkapuri Grid.

Date : 05.05.2025

Product related queries

Sr. No.	Document Reference	Detailed Reference to Tender Document.	Description as per Bid Document	Stelmec Query / Clarification	M/s. BYPL Response
1	Tech Spec 11kV & 33kV VCB	4 Panel Construction	4.3 Enclosure material Pre-Galvanized CRCA steel	We will supply the CRCA sheet as per our regular supplies to BSES. Kindly confirm your acceptance.	BYPL has never bought panels from stelmec and hence kindly adhere to specification.
2	Tech Spec 11kV & 33kV VCB	4 Panel Construction	4.4 Dimension of Panel Maximum 2700mm, Operating height maximum 1600mm. In case of Extension of Existing make panels, vendor shall match the dimension of existing panel.	Our offered panel dimensions in mm are approximately as follows. Kindly confirm your acceptance: a. Incomer Panel: 700 (W) x 2150 (D) x 2300 (H) b. Outgoing Panel: 600 (W) x 1800 (D) x 2300 (H) c. Station Transformer Panel: 600 (W) x 1800 (D) x 2300 (H) d. Capacitor Panel: 600 (W) x 1800 (D) x 2300 (H) e. Bus Coupler: 700 (W) x 1800 (D) x 2300 (H) f. Bus Riser with Bus PT: 600 (W) x 1800 (D) x 2300 (H) g. Bus PT: 600 (W) x 1800 (D) x 2300 (H)	Incomer panel, Bus coupler panel and Adaptor panel shall have width of 800 mm. Rest parameters are acceptable.
3	Tech Spec 11kV & 33kV VCB	4 Panel Construction	4.6 Separate Compartments for Bus bar, Circuit Breaker, HV incoming cable, HV outgoing cable, PT, LV instruments & relays	We will provide separate compartments for the busbar, breaker, HV incoming/outgoing cables, and LV instruments. While line PT will be mounted on a separate trolley in the breaker compartment. Kindly confirm your acceptance.	Noted
4	Tech Spec 11kV & 33kV VCB	5 Circuit Breaker	5.5 Contact Tulip contact shall be provided without any gap between contacts	As per our type-tested design, it will be finger-type. Kindly confirm your acceptance.	Noted
5	Tech Spec 11kV & 33kV VCB	7 Surge Suppressor	7.1 Provision To be provided in all panels except bus coupler and BPT.	We understand that surge suppressors are within our scope of supply. Kindly confirm.	As per specificatio, Surge suppressor is in bidder's scope.
6	Tech Spec 11kV & 33kV VCB	12 Meters	12.4 Energy meter provision Energy meter is not in supplier's scope. Only space and CT/PT wiring is to be provided in all panels except bus coupler and bus PT. Space for Energy meter shall be 200(w) X 350(h) mm2	As per our regular supply to M/s. BSES, the Energy Meter shall be included in our scope of supply. However, please confirm whether we have considered the Energy Meter or not.	As per specification, energy meter is not in bidder's scope.Only space and CT/PT wiring is to be provided in all panels except bus coupler and bus PT.
7	Tech Spec 11kV & 33kV VCB	17 Relays	17.1.4 Programming and configuration Programming software and communication cord for offered relays should be included in scope of supply.	Please specify the type of communication cord required, along with the required length.	1. Commincation cord shall depend upon which type of communcation bidder is offering. 2. Length of communcation cord- 5 meters
8	Tech Spec 11kV & 33kV VCB	17 Relays	17.1.11 SCADA Interface Relay shall communicate all measured & monitored parameters, analog signals, event record, fault record, DIs , DOs etc to SCADA	Please share SCADA interface and automation specs to define feeder-wise DI/DO needs for protection relays.	SCADA interface and DI/DO list is already provided in specification.
9	Tech Spec 11kV & 33kV VCB	17 Relays	17.2 Protection Relays for 11kV Incomer panel 17.2.1 Relay 1 : Sync Check function 17.2.3 User Configurable DIs and Dos : Relay-1 & 2 should have a total of 16 Dis and 10 Dos (minimum). Each relay should have atleast 2 Dis and 4 Dos	1. We understand the sync check function is needed for the incomer panel & Bus Coupler Panel, but the SLD shows no relay is required. Please confirm. 2. Do we need to consider the following DI/DO? Kindly confirm your acceptance: a. Incomer panel: DI/DO-16/10 for Relay 1 & Relay 2. b. Bus Section panel: DI/DO-16/08 for Relay. c. Outgoing & Station Transformer panel: DI/DO-16/06 for Relay. d. Capacitor panel: DI/DO-16/06 for Relay. 3. Also Please share SCADA interface and automation specs to efine feeder-wise actual DI/DO needs for protection relays. 4. Please confirm how many steps or relays are provided for the neutral unbalance relay (current-based) in the capacitor panel.	1. Kindly refer Relay section of Technical specification for Relay particulars. 2. DI/DO numbers shall depend upon scheme and hence cannot be freezed at this point of time. 3. All numerical relays shall be connetced to ethernet siwtches and ethrenet switches shall communicate to RTU. Bidder's scope is limited upto ethernet switches. For MFM, Daisy chain shall be made for communication. 4. Two Analog Input for CT (For NCT protection) and Two Analog input for
10	Tech Spec 11kV & 33kV VCB	17 Relays	17.3 Protection Relays for 11kV Bus Section panel 17.3.1 Relay 1 : Sync Check function User Configurable 16 Dis and 8 Dos (minimum)		
11	Tech Spec 11kV & 33kV VCB	17 Relays	17.4 Protection Relays for 11kV Outgoing panel 17.4.1 Relay 1 : User Configurable 12 Dis and 6 Dos (minimum) Auto Re-closer (If Specified in Tender document)		
12	Tech Spec 11kV & 33kV VCB	17 Relays	17.5 Protection Relays for 11kV Station Transformer panel 17.5.1 Relay 1 : User Configurable 12 DIs and 6 DOs (minimum) Auto Re-closer (If Specified in Tender document)		

13	Tech Spec 11kV & 33kV VCB	17 Relays	17.6 Protection Relays for 11kV Capacitor panel 17.6.1 Relay 1 : Neutral Unbalance protection(From RVT associated to Cap Bank) User Configurable 12 DIs and 6 DOs (minimum) Auto Re-closer (If Specified in Tender document)		protection) and Two Analog Input for PT (For RVT Protection) shall be used.
14	Tech Spec 11kV & 33kV VCB	19 Ethernet Switches & Fiber Optics	19.1.13 Mounting In Switchgear Panel 19.1.18 Placement Din Rail Arrangement Inside Switchgear	Please confirm whether the Ethernet switch is within our scope of supply. If yes, kindly provide the following details: a. SCADA architecture b. Total required RJ45 and FO ports c. Speed of RJ45 and FO ports d. We will consider multifunction meters only for the connections from meters to the Ethernet switch. Please confirm.	
15	Scope of Works with Drawings	3.2 Package A1– Mandoli Grid: GIS Grid with Infeed	3.2.1.1.7 Ethernet Switch a) Number of Ethernet Switches shall be as per System Architecture b) 20% of the ports shall be spare.		1. Ethernet switches are in bidder's scope of supply. 2. Number of FO ports and RJ45 ports shall depend on number of relays and hence vendor has to calculate the same. 3. Daisy chain shall be made for MFM.
16	Scope of Works with Drawings	3.3 Package A2 – Faiz Road Grid: AIS to GIS Conversion	3.3.1.3 Ethernet Switch a) Number of Ethernet Switches shall be as per System Architecture b) 20% of the ports shall be spare.		
17	Scope of Works with Drawings	3.4 Package A3– Shashtri Park East: Addition of Power Transformer	3.4.1.11 Ethernet Switch a) Number of Ethernet Switches shall be as per System Architecture b) 20% of the ports shall be spare.		
18	Scope of Works with Drawings	3.5 Package A4– Shashtri Park East: Replacement of CRPs	3.5.1.5 Ethernet Switch a) Number of Ethernet Switches shall be as per System Architecture b) 20% of the ports shall be spare.		
19	Scope of Works with Drawings	3.6 Package A5 – Shankar Road Grid: Replacement of 11 kV Switchgear	3.6.1.3 Ethernet Switch a) Number of Ethernet Switches shall be as per System Architecture b) 20% of the ports shall be spare.		
20	Tech Spec 11kV 33kV VCB	24 Approved Makes of Components	24.1 Numerical Relays Siprotec series of Siemens, Micom series of Schneider/Alstom. Numerical relays used in complete switchboard should be of same make.	As per our past supplies to BSES, we have supplied ABB REF615/REF620 and Siemens 7SR5 relays. Please confirm if we can consider the same for this tender.	ABB Make is not acceptable. Although 7SR5 is acceptable.
21	Tech Spec 11kV 33kV VCB	25 Inspection, Testing & Quality Assurance	25.1.1 Type test report validity period Last five years from date of bid submission. Bidder with type test report more than 5 years old needs to re-conduct the tests without any commercial implication to BSES	1. We will offered a VCB panel with a rating of 2000A, equipped with a Stelmec make VCB and ABB make VI. The product is fully type-tested, and the type test reports are older than 5 years but within the 10-year validity period. 2. We will offered VCB panels with a rating of up to 1250A & 800A, equipped with Stelmec make VCBs and ABB make VI. The product is fully type-tested, and the type test reports are within the 5-year validity period.	Kindly submit this point at the time of technical evaluation.
22	Tech Spec 11kV 33kV VCB	Annexure – C - Technical Particulars	3.0 Current Transformers 3.2 Type Cast resin, window / bar primary type	As per our regular supply to M/s. BSES, we have supplied wound-type CT (Ratio: 60-30/1-1A) for the Station Transformer Feeder. Hence, we will consider wound-type CT. Kindly confirm acceptance.	Noted
23	Tech Spec 11kV 33kV VCB	Annexure – E – Spares Requirement	1 Line voltage transformer 3 (1 set) 2 Bus voltage transformer 3 (1 set) 3 Current transformer of each ratio 3 (1 set) 4 Trip Coil 4 5 Closing Coil 4 6 CB Spring charging motor 2 7 Auxiliary switch 2 sets (2 Nos. each type) 8 Bursting disc / pressure relief plate complete 2 9 Numerical relay of each type 1 nos. (each type) 10 Ethernet Switch 1 No (Each Site) 11 Optical Fibre 20% of Supplied Items 12 CAT VI Ethernet cable for Communication 20% of Supplied Items 13 Vacuum Interrupter Bottle 1 set (3 nos.) of each rating 14 Breaker contacts for busbar 1 set (3 nos.) of each rating 15 Breaker testing cable with plug suitable for breaker on one side and plug suitable for the panel on the other side 3 meter(each type) 16 SCADA Spare 20% of Supplied Items	1. We understand that the spares quantity as per Annexure – E is to be considered for each substation. Kindly confirm your acceptance. 2. The spares requirement (Sr. 11 & 12) is unclear. Please provide the length and specifications for the optical fiber and CAT VI Ethernet cable for communication. 3. The spares requirement (Sr. 16) for the SCADA system and its spares are not within our scope.	Spares are not in biidder's scope.

24	Scope of Works with Drawings	3.2 Package A1– Mandoli Grid: GIS Grid with Infeed	3.2.1.1.5 11 KV Switchboard 3.2.1.1.5.2 Adaptor Panel Remarks - a) Adaptor panels and Dummy panels shall be provided wherever applicable	1. Please confirm the required dimensions for Adaptor/Dummy panels. 2. To accommodate a dual set of CT in the incomer panel, the panel depth will be 2150mm. Kindly confirm your acceptance. 3. We require a detailed cross-sectional drawing of the existing switchgear, including all dimensions such as Ph-Ph and Ph-E clearances. This information is necessary to check the technical feasibility of the interpanel coupling arrangement.	Clause number is not matching with tender specification. Although for dwarkapuri tender- 1. Width of panel- 800, depth- 1800 to 2000 mmm, Height - Same as other panels 2. Depth of 2150 mm is acceptable. 3. Kindly refer Indian standards for these clearances.
25	Scope of Works with Drawings	3.4 Package A3– Shashtri Park East: Addition of Power Transformer	3.4.1.10 11 kV Switchgear 3.4.1.10.2 11 kV Adaptor Panel for Incomer 3.4.1.10.7 11 kV Adaptor Panel For Coupling of new switchgear with existing switchgear		
26	Scope of Works with Drawings	3.6 Package A5 – Shankar Road Grid: Replacement of 11 kV Switchgear	3.6.1.1 11 kV Switchboard Remarks a) Panel Depth shall not be more than 2000 mm		
27	Scope of Works with Drawings	3.6 Package A5 – Shankar Road Grid: Replacement of 11 kV Switchgear	3.6.1.1 11 kV Switchboard 3.6.1.1.2 Adaptor for Incomer Panel		
28	Scope of Works with Drawings	3.6 Package A5 – Shankar Road Grid: Replacement of 11 kV Switchgear	3.6.1.1.4 Bus Riser Cum Bus PT Panel a) One Bus Riser Cum Bus PT Panel shall be suitable for coupling with existing CG make JVAC panel. b) If Bus Riser Cum Bus PT Panel cannot be designed for coupling with existing switchgear, Adaptor Panel for coupling purpose shall be provided.		
29	Scope of Works with Drawings	3.4 Package A3– Shashtri Park East: Addition of Power Transformer	3.4.1.10 11 kV Switchgear Remarks c) CB Health monitoring including HMI shall be provided. It shall be flush mounted on LV compartment.	CB Health monitoring including HMI features are unavailable with us. Hence, we will not be offering. Kindly confirm your acceptance.	Point does not pertain to this tender.

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ETC related queries

Sr No	Tender clause	Reference/Page no	Stelmec Query / Clarification	M/s. BYPL Response
1			**We request to kindly arrange joint site visit**	
2	New Power cable laying & termination. Volume-III- Scope of work ("It include disconnection of power cable of existing panel")	Volume-III Scope of work . Page no : 83 of 144	We understood that New power cable laying and termination is not in our scope. Please clarify.	Noted
3	RTU SCADA Panel installation	NA	We understood that RTU installation is not in our scope. Please clarify.	Noted
4	supply of Control cables for protection & metering & SCADA except AC/DC	Volume-III Scope of work . Page no : 83 of 144	Other than AC/DC control cables (ie: NCT, Master trip ,OLTC) supply / termination are not mentioned in tender scope of work. Please clarify. Volume-III- Scope of work (For inter-panel wiring and extension of AC and DC Power) Page no : 83 of 144	Kindly refer tender document for scope clarity Kindly refer tender document for scope clarity
5	Civil foundation, Cable trench & supply of MS channel	NA	We understood that Both of (Civil foundation, Cable trench) civil work is not in our scope. Please clarify.	Kindly refer tender document for scope clarity
6	list of pre-commissioning and Post-commissioning tests to be performed at site.	NA	Refer to tender documents pre-commissioning and post-commissioning tests are not mentioned. we require list of site tests. Please clarify	Refer Indian Standard / IEC for the same.
7	Supply of Cable termination KIT. Volume-III- Scope of work (" It include disconnection of power cable of existing panel ") Page no : 83 of 144	Volume-III Scope of work . Page no : 83 of 144	We understood that supply of Cable termination kit is not in our scope. Please clarify.	Power cable termination is not in bidder's scope.
8	Supply of SCADA spares	Annexure E Page no 48 of 60	We required list of Item and qty which you required as SCADA spares. Please clarify.	Spare is not in bidder's scope.