



**GOVERNMENT OF GOA
ELECTRICITY DEPARTMENT
OFFICE OF THE CHIEF ELECTRICAL ENGINEER
CONTRACT SERVICE CELL
5TH FLOOR, VIDYUT BHAVAN, PANAJI-GOA**



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No. CEE/CSC/Tech-18(MRA-102)/2023-24/3967

Date:- 05/03/2024

To,
The Superintending Engineer,
Circle I(S)/II(N)/Planning,
Margao/Panaji-Goa.

Sub: - Market rate approval for SETC of 33KV, 11KV Breaker Panels and 33KV Control & Relay Panel.

Ref No: CEE/CSC/Tech-54/2023-24/3699 dt: 15/02/2024.

On recommendation of the Market Rate Approval Committee, approval of the undersigned is accorded for SETC of 33KV, 11KV Breaker Panels and 33KV Control & Relay Panel for the Rate quoted as shown below:

Sr. no.	Description	Qty/unit	Rate (in ₹) (exclusive of G.S.T.)	
			Supply (₹)	Erection (₹)
1	11kV panel as per the enclosed specifications of following type/rating			
a	INCOMER : 12 KV, 1600 A (BB - 1600A) , 25 KA 3 Secs, 3 phase, indoor type VCB, with spring type operating mechanism, mounted on rack out type trolley, along with 3 Nos of 12 KV CT, 3 core, 1200-800-/5-5-1 Amps, 11 KV/110/v3/110v3 V Line Potential Transformer. LV Compartment with Breaker control panel consisting of voltmeter, ammeter, MFM, B6BCPU NUMERICAL relays 61850 protocol with master and Trip Circuit supervision, LED type indication lamps, TTBs, Annunciation, 3 phase, 4 wire, DLMS energy meter with 4G modem along with Software updation in the back end system for data integration with MDM. Complete as per Technical Specification. (Incomer)	1No.	15,50,000.00	45,000.00
b	OUTGOING : 12 KV, 800 A (BB - 1600A) , 25 KA 3 Secs, 3 phase, indoor type VCB, with spring type operating mechanism, mounted on rack out type trolley, along with 3 Nos of 12 KV CT, 3 core, 400-200-/5-5 Amps, LV Compartment with Breaker control panel consisting of voltmeter , ammeter, MFM, BCPU NUMERICAL relays 61850 protocol with master and Trip Circuit supervision, LED type indication lamps, TTBs, Annunciation, 3 phase , 4 wire , DLMS energy meter with 4G modem along with Software updation in the back end system for data integration with MDM. Complete as per Technical Specification. (Outgoing)	1No.	13,50,000.00	40,000.00

c	INCOMER : 12 KV, 1250 A (BB - 1250A), 25 KA 3 Secs, 3 phase, indoor type VCB, with spring type operating mechanism, mounted on rack out type trolley, along with 3 Nos of 12 KV CT, 3 core, 800-400-/5-5-1 Amps, 11 KV/110/v3/110v3 V Line Potential Transformer. LV Compartment with Breaker control panel consisting of voltmeter, ammeter, MFM, BCPU NUMERICAL relays 61850 protocol with master and Trip Circuit supervision, LED type indication lamps, TTBs, Annunciation, 3 phase, 4 wire, DLMS energy meter with 4G modem along with Software updation in the back end system for data integration with MDM. Complete as per Technical Specification. (Incomer)	1No.	13,50,000.00	45,000.00
d	OUTGOING : 12 KV, 630 A (BB - 1250A), 25 KA 3 Secs, 3 phase, indoor type VCB, with spring type operating mechanism, mounted on rack out type trolley, along with 3 Nos of 12 KV CT, 3 core, 400-200-/5-5 Amps, LV Compartment with Breaker control panel consisting of voltmeter , ammeter, MFM, BCPU NUMERICAL relays 61850 protocol with master and Trip Circuit supervision, LED type indication lamps, TTBs, Annunciation, 3 phase , 4 wire , DLMS energy meter with 4G modem along with Software updation in the back end system for data integration with MDM. Complete as per Technical Specification. (Outgoing)	1No.	12,00,000.00	40,000.00
e	BUS COUPLER : 12 KV, 1600 A (BB - 1600A), 25 KA 3 Secs, 3 phase, indoor type VCB, with spring type operating mechanism, mounted on rack out type trolley, along with 3 Nos of 12 KV CT, 3 core, 1200-800-/5-5 Amps, LV Compartment with Breaker control panel consisting of voltmeter , ammeter, MFM, BCPU NUMERICAL relays 61850 protocol with master and Trip Circuit supervision, LED type indication lamps, TTBs, Annunciation, 3 phase , 4 wire , DLMS energy meter with 4G modem along with Software updation in the back end system for data integration with MDM. Complete as per Technical Specification. (Bus Coupler)	1No.	15,00,000.00	45,000.00
f	BUS COUPLER : 12 KV, 1250 A (BB - 1250A), 25 KA 3 Secs, 3 phase, indoor type VCB, with spring type operating mechanism, mounted on rack out type trolley, along with 3 Nos of 12 KV CT, 3 core, 800-400-/5-5 Amps, LV Compartment with Breaker control panel consisting of voltmeter , ammeter, MFM, BCPU NUMERICAL relays 61850 protocol with master and Trip Circuit supervision, LED type indication lamps, TTBs, Annunciation, 3 phase , 4 wire , DLMS energy meter with 4G modem along with Software updation in the back end system for data integration with MDM. Complete as per Technical Specification. (Bus Coupler)	1No.	13,50,000.00	45,000.00

g	BUS RISER CUM BUS PT 11KV Bus Riser Cum PT (BB 1600A) 11KV/v3/110/v3/110/v3 Bus Potential Transformer. (PT shall be withdrawable type)	1No.	7,50,000.00	40,000.00
h	BUS RISER CUM BUS PT 11KV Bus Riser Cum PT (BB 1250A) 11KV/v3/110/v3/110/v3 Bus Potential Transformer. (PT shall be withdrawable type)	1No.	7,00,000.00	40,000.00
i	BUS PT 11KV Bus PT (BB 1600A) 11KV/v3/110/v3/110/v3 Bus Potential Transformer. (PT shall be withdrawable type)	1No.	4,80,000.00	40,000.00
j	BUS PT 11KV Bus PT (BB 1250A) 11KV/v3/110/v3/110/v3 Bus Potential Transformer. (PT shall be withdrawable type)	1No.	4,50,000.00	40,000.00
2	33kV panel as per the enclosed specifications of following type/rating			
a	INCOMER : 36 KV, 1250 A (Busbar current - 1250A) , 31.5 KA 3 Secs, 3 phase, indoor type VCB, with spring type operating mechanism, mounted on rack out type trolley, Inbuilt Earthswitch, along with 3 Nos of 36 KV CT, 3 core, 400-200-/1-1 Amps, 33 KV/110/v3/110v3 V Line Potential Transformer. LV Compartment with Breaker control panel consisting of voltmeter , ammeter, MFM, BCPNU NUMERICAL relays 61850 protocol with master and Trip Circuit supervision, VPIS, LED type indication lamps, TTBs, Annunciation, 3 phase , 4 wire , DLMS energy meter with 4G modem along with Software updation in the back end system for data integration with MDM. Complete as per Technical Specification.	1No.	19,50,000.00	55,000.00
b	OUTGOING : 36 KV, 1250 A (Busbar current - 1250A) , 31.5 KA 3 Secs, 3 phase, indoor type VCB, with spring type operating mechanism, mounted on rack out type trolley, Inbuilt Earthswitch, along with 3 Nos of 36 KV CT, 3 core, 400-200-/1-1 Amps. LV Compartment with Breaker control panel consisting of ammeter, MFM, BCPNU NUMERICAL relays 61850 protocol with master and Trip Circuit supervision, VPIS, LED type indication lamps, TTBs, Annunciation, 3 phase, 4 wire, DLMS energy meter with 4G modem along with Software updation in the back end system for data integration with MDM. Complete as per Technical Specification.	1No.	18,25,000.00	55,000.00

c	POWER TRANSFORMER : 36 KV, 1250 A (Bus bar current - 1250A) , 31.5 KA 3 Secs, 3 phase, indoor type VCB, with spring type operating mechanism, mounted on rack out type trolley, Inbuilt Earthswitch, along with 3 Nos of 36 KV CT, 3 core, 400-200-/1-1 Amps. LV Compartment with Breaker control panel consisting of ammeter, MFM, BCPNU NUMERICAL relays 61850 protocol, Numerical Trafo Differential relay with master, Trip Circuit supervision and Trafo protection Aux relay, VPIS, LED type indication lamps, TTBS, Annunciation, 3 phase , 4 wire , DLMS energy meter with 4G modem along with Software updation in the back end system for data integration with MDM. Complete as per Technical Specification.	1No.	20,60,000.00	55,000.00
d	STATION TRANSFORMER : 36 KV, 1250 A (Busbar current - 1250A) , 31.5 KA 3 Secs, 3 phase, indoor type VCB, with spring type operating mechanism, mounted on rack out type trolley, Inbuilt Earthswitch, along with 3 Nos of 36 KV CT, 3 core, 50/1-1 Amps. LV Compartment with Breaker control panel consisting of ammeter, MFM, BCPU NUMERICAL relays 61850 protocol with master and Trip Circuit supervision, VPIS, LED type indication lamps, TTBS, Annunciation, 3 phase, 4 wire, DLMS energy meter with 4G modem along with Software updation in the back end system for data integration with MDM. Complete as per Technical Specification.	1No.	17,00,000.00	55,000.00
e	BUSCOUPLER : 36 KV, 1250 A (Busbar current - 1250A) , 31.5 KA 3 Secs, 3 phase, indoor type VCB, with spring type operating mechanism, mounted on rack out type trolley, Inbuilt Earthswitch, along with 3 Nos of 36 KV CT, 3 core, 800-400-200-/1-1 Amps. LV Compartment with Breaker control panel consisting of ammeter, MFM, BCPNU NUMERICAL relays 61850 protocol with master and Trip Circuit supervision, VPIS, LED type indication lamps, TTBS, Annunciation, 3 phase, 4 wire, DLMS energy meter with 4G modem along with Software updation in the back end system for data integration with MDM. Complete as per Technical Specification.	1No.	18,00,000.00	55,000.00
f	BUS RISER CUM BUS PT 33KV Bus Riser Cum PT (Busbar current 1250A) 33KV/v3/110/v3/110/v3 Bus Potential Transformer. (PT shall be withdrawable type) with Voltmeter, VPIS, Inbuilt Earth switch for Bus Bar Earthing	1No.	10,50,000.00	50,000.00
g	BUS PT 33KV Bus PT (Busbar current 1250A) 33KV/v3/110/v3/110 v3 Bus Potential Transformer. (PT shall be withdrawable type) with Voltmeter, VPIS, Inbuilt Earth switch for Bus Bar Earthing	1No.	9,00,000.00	50,000.00

3	33KV Control & Relay Panel			
1	33KV Control & relay for 6.3/10/20 MVA Power Transformer consisting of electronic trivector energy meter, voltmeter, ammeter, EF, OC, Differential, SEF relays, master trip relay, indication lamps, semaphore, annunciation panel complete etc.	1No.	13,00,000.00	50,000.00
2	33KV Control & relay for incoming/outgoing feeders consisting of electronic Trivector energy meter, voltmeter, ammeter, EF, OC, SEF relays, master trip relay, indication lamps, semaphore, annunciation panel complete etc.	1No.	10,50,000.00	50,000.00

The above rates are for Siemens, Schneider and ABB make only.

All the codal formalities should be followed in accordance to the CPWD Works Manual.

Encl: 1 no. file



(Stephen Fernandes)
Chief Electrical Engineer