



MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.

**Office of the Executive Engineer,
E.H.V. Projects Division, Kalyan.**

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Ref. No. EE/EHV C/DN/KLN/T-

/No. 002140

Date: 11 NOV 2024

Sub: E-enquiry for submission of Quotation / Budgetary offer for estimation work of Various fully automated EHV Substation.

Dear Sir,

The Sealed Quotations/Budgetary offer is invited for the above mentioned work as per Scheduled – 'A' with following terms & condition:

1. The Quotation/Budgetary offer shall reach to this office from 11.11.2024 to 14.11.2024 up to 11:00Hrs. This office shall not accept any responsibility for late receipt of quotations. The quotation will be opened on dt. 18.11.2024 (If possible).
2. The Quotation/Budgetary offer will be accepted from approved vendor of MSETCL only.
3. The Quotations/Budgetary offer will be on agencies letter head and valid for 3 months.
4. The Ex-work price & other applicable taxes will be mentioned separately in the budgetary offer.
5. The undersigned reserve the right to reject any or all quotations without assigning the reason thereof.

Encl:- Schedule A

Executive Engineer
E.H.V. Projects Dn. Kalyan

Schedule "A"

	Material Description	Specifications	Unit price W/O GST	Remarks
A	IT			
	Sub-Station Firewall for Cyber security			
B	Access Control System			
1	Access Control system for authorized entry of personnels			
C	Following systems shall be integratable in SAS and monitored or controlled from local and remote end.			
1	Nitrogen Injection Fire Protection System (IEC61850/Modbus compliant) to integrate in substation SCADA System as per scope of work	Following system shall be integratable to SAS and monitored or controlled from local and remote end.		
2	AC & DC Distribution system	These systems shall be integratable with SCADA over Modbus/IEC61850 Protocol.		
3	Battery Chargers			
4	Diesel Generator set			
5	GIS room ventilation system			
6	SCADA communicable Transformer Accessories on Open protocol like MODBUS / IEC61850	<ol style="list-style-type: none"> 1. e-Buchholz 2. e-PRV 3. Smart/e-Breather self dehydrating breather 4. e-OTI & e-WTI 5. e-Oil Level Indicator 6. OLTC Vibration sensor 7. SCADA Communicable Fan Control Cubicle 		Being the transformer Auxiliaries, these accessories shall be included as a part of Specifications of Power Transformer/ICTs for realtime monitoring through SCADA system from Local as well as Remote.
D	SF6 GIS online monitoring system .			

	1. Hybrid gas density monitor with integrated transmitter	Hybrid gas density monitor with integrated transmitter With Modbus output signal Measure values for pressure, temperature and gas density as digital signal Accuracy; $\pm 1\%$ at an ambient temperature of 20 °C, IP65 as per IEC/EN 6052.		Being the GIS Auxiliaries, these accessories shall be included as a part of Specifications of GIS Sub-Station.
	2 .Room gas monitoring Measuring devices.(Gas Safety Monitor)	Up to 32 sensors can be controlled and monitored. Measured values and messages are stored and can be accessed on the 7' colour touchscreen as required. Gas type: SF 6 Gas type: C4-FN Gas type: O 2 Gas type: CO Gas type: SO 2 2 Gas type: CO All connected sensors Sensors are connected via an RJ45 cable, 4 RJ45 socket (Ethernet and Power over Ethernet (PoE)) Up to three sensors can be connected and supplied directly to the monitor Can be expanded to up to 32 sensors by using PoE switches Operating voltage 80 - 264 V AC Operating voltage 113 - 370 V DC Frequency 47 - 63 Hz		
	3. Continuous on-line partial discharge monitoring of Gas Insulated Switchgear			
E	Industrial grade Air conditioning system	Variable refrigerant flow (VRF) or Ductable AC System with adequate Cooling Capacity shall be provided.		
F	Solar system for Auxiliary consumption	Refer the MSETCL existing specification		
G	OPGW with FOTE Panel	OPGW Network connectivity with MTCIL Main Ring shall be ensured and considered in the Scope.		