

**MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD**  
**(CIN No.U40109MH2005SGCI53646)**

**Office of the Executive Engineer**  
EHV O & M Division-I, Pune  
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**EE/EHV O&M Dn.-I/Pune/Tech./932**

**Date : 26.05.2023**

**TO WHOM SO EVER IT MAY CONCERN**

This office requires Budgetary offer for Supply, Erection Testing and Commissioning of 22 kV GIS Feeder Bay, 22 kV Bus Coupler & 22 kV GIS Bus extension (compatible **to existing 22kV GIS, indoor, M/s. ABB make, Type-ZX2**) at 220 kV Kondhwa s/sn under EHV O&M Division-1, Pune, below.

Sr. No.	Description of GIS bay/Equipment etc	Unit	Qty	Supply	Erection
	<b>22 kV GIS Switchgear</b>				
	<p>Non-magnetic, stainless steel, laser welded. encapsulated SF6 gas insulated switchgear for rated voltage: 24 kV, rated Current: 2000 Amp, Short Ckt Current &amp; time 31.5 kA/3sec rating suitable for indoor installation of modular design alongwith following Equipment, Vacuum Ckt. Breaker, Current transformer, Bus Disconnecter with earth Switch, Surge arrester, Metering, Cable termination and allied Equipment and Compatible for Existing 22 kV GIS Switchboard M/s ABB make Type: ZX2 type panels .</p> <p>Including, Complete testing of 22 kV GIS Panels as per standards along with interpanel wiring adjacent &amp; Existing panels</p> <p>Including, Sundry work required on site while erection &amp; commissioning of GIS bay &amp; Duct (electrical/Civil) etc.</p>				
<b><u>1</u></b>	<b><u>22kV Bus coupler /sectionlizer module of capacity 2000 Amp.</u></b>	EA		Yes	Yes
	<b>Each module consist the following.</b>				

a	<b>Vacuum Circuit breaker</b> :36 kV, rated Current :2000Amp.Short Ckt Current & time 31.5 kA/3sec rating ,3 phase Circuit Breaker with vacuum interrupters in gas filled switchgear housing complete with operating mechanism as per MSETCL latest specification				
b	<b>3 position Bus Disconnecter with Earthswitch</b> :3 phase , Single Bus, three position disconnecter to work as disconnecter & earthing switch complete with manual & motor driven operating mechanism 2000A- 1 Set as per MSETCL latest specification				
c	<b>Current Transformer:</b> Rated voltage: 36 kV ,3 Core ,single phase ,current transformer Ratio: <u>1600-800/1 A-</u> (1 Set- 3 Nos.)				
d	<b>Bus-Bar</b> - Single bus arrangement: Copper Main Bus - rated Voltage: 24 KV, rated Current :2000 A,Short Ckt Current & time 31.5 kA/3sec rating With coupling arrangement Bus or bay & compatible with Existing GIS system of 22 kV M/s ABB make ,Type: ZX2 type.				
e	<b>22 kV Local Control Cubicle /C&amp;R panel:</b> with Numerical BCU alongwith separate Numerical OC+EF Directional relay and 3 ph, 4 Wire ,4 Quadrant MFM meter as per MSETCL latest specification for GIS module, with gas monitoring device, barriers pressure switches etc. as required.				
f	<b>NOTE: The bus and the equipments are with 3 phase enclosure. In 22 kV Bus coupler PT selection Scheme should be incorporated. VCB &amp; CT voltage rating should be 36 kV.</b>				
<u>2</u>	<b><u>22 kV Line (UG Cable module) with GIS surge arrestor</u></b>	EA		Yes	Yes
	<b>Each module consists the following.</b>				
a	<b>Vacuum Circuit breaker</b> :36 kV, Rated Current:1600Amp.Short Ckt Current & time 31.5 kA/3sec rating ,3 phase Circuit Breaker with vacuum interrupters in gas filled switchgear housing complete with operating mechanism				

b	<b>3 position Bus Disconnecter with Earthswitch</b> :3 phase, Single Bus, three position disconnector to work as disconnecter & earthing switch complete with manual & motor driven operating mechanism 1600A- 1 Set with Operating handles				
c	<b>Current Transformer:</b> Rated voltage: 36 kV ,3 Core ,single phase current transformer Ratio: <u>300-600/1 A-</u> (1 Set- 3 Nos.)				
d	Bus-Bar - Single bus arrangement: Copper Main Bus - rated Voltage: 24 KV ,rated Current :2000 A, Short Ckt Current & time 31.5 kA/3sec rating With coupling arrangement Bus or bay & compatible with Existing GIS system of 22 kV M/s ABB make ,Type: ZX2 type.				
e	<b>Cable end unit (Plug in type):</b> With capacitive voltage indicator system: 3 phase, Single pole, Plug in type cable termination - Double run of 24 kV,300/400 sq.mm for each phase - 2 run (2 Set-6 Nos) .				
g	<b>22 kV Local Control Cubicle /C&amp;R panel:</b> With Numerical BCU alongwith seperate Numerical OC+EF Directional relay as per MSETCL specification for GIS module, gas monitoring device, barriers pressure switches etc. as required.				
f	<b>NOTE: 1) The bus and the equipments are with 3 phase enclosure.2) VCB &amp; CT voltage rating should be 36 kV.3) Due to Non express and NO interface Location ABT meter not require for this bay .</b>				
3	<b>22 kV GIS Bus DUCT (22 kV GIS bus duct connecting existing 22kV bus and new 22 kV bus) Approximately (10X2=20 RMT)</b>				
	<b>Bus-Bar</b> - Single bus arrangement: Copper material, Main Bus - rated Voltage: 24 KV ,rated Current :2000 A ,Short Ckt Current & time 31.5 kA/3sec rating With coupling arrangement Bus or bay & compatible with Existing GIS system of 22 kV M/s ABB make ,Type: ZX2 type. with SF6 gas monitoring and Filling/Degasing facility. as per MSETCL specification	EA		Yes	Yes

All interested are requested to submit their best offer for above said material on Email ID:ee6140@mahatransco.in along with HSN Codes & applicable rate of GST for above Material, upto dtd. 31.05.2023 at 12:00 Hrs.

This budgetary offer is invited only for estimation purpose and same will not be considered for any bidding or other activity.

Technical specification attached herewith for reference.

**Executive Engineer,  
EHV O&M Division-I, Pune**