



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

 <p><b>MAHATRANSCO</b> Maharashtra State Electricity Transmission Co. Ltd.</p>	<p><b>Office of the Executive Engineer</b> EHV O &amp; M Division-I, Pune Block No.406, Admin Building, 3<sup>rd</sup> Floor, Rasta Peth, Pune 411011 Phone No : 7447440351 E- mail- ee6140@mahatransco.in</p>	 <p>स्वतंत्रता श्रिताज्यामिमेक शके ३५०</p>
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**EE/EHV O&M Dn.-I/Pune/Tech./1842**

**Date : 14.10.2024**

**TO WHOM SO EVER IT MAY CONCERN**

**Subject:** Calling of Budgetary offer in r/o Scheme for Replacement of existing 0.4 Deer/Zebra ACSR conductor by HTLS (ACCC) conductor & disc insulator by long rod porcelain insulator string along with necessary double type hardware, double Jumpering of 220 kV Jejuri - Kondhwa Line along with strengthening of end bays under EHV O&M Division-I, Pune

Dear Sir,

The Budgetary offer through e-mail are hereby invited for the above work as per schedule-A enclosed

All are requested to quote your best reasonable rates for above work.

The Terms and conditions as below:

- 1) The rate quoted should be valid for 120 day (minimum)
- 2) The rate should be quoted on firm quotation basis.
- 3) The rates should be exclusive of all taxes. Taxes should be quoted extra.
- 4) You are requested to submit your best reasonable budgetary offer as per Schedule-A, for above works on E-mail ID: ee6140@mahatransco.in up to 11:00 Hrs on dtd. 21.10.2024 Contact Details: Amit Khakal: 7588116567,
- 5) Following documents should be submitted along with your offer: -
  - a. Shop Act / Udyog Aadhar Registration Certificate.
  - b. Work Experience Certificate for similar nature of works in MSETCL/MSEDCL/ in any Power Utility or in Private Company in India.

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

**-Sd-**  
**(V.V. Borkar)**  
**Executive Engineer**  
**EHV O & M Division –I, Pune**

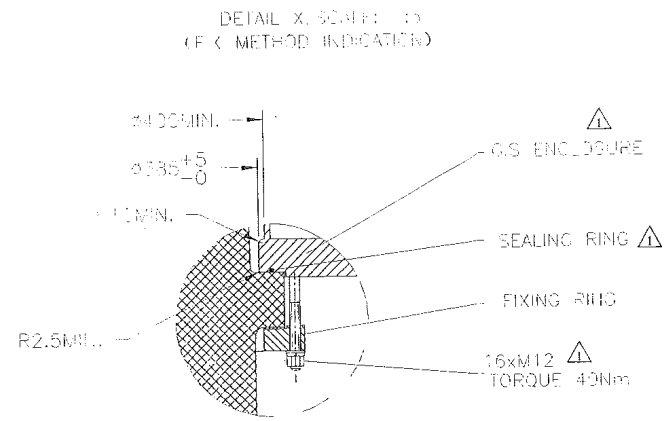
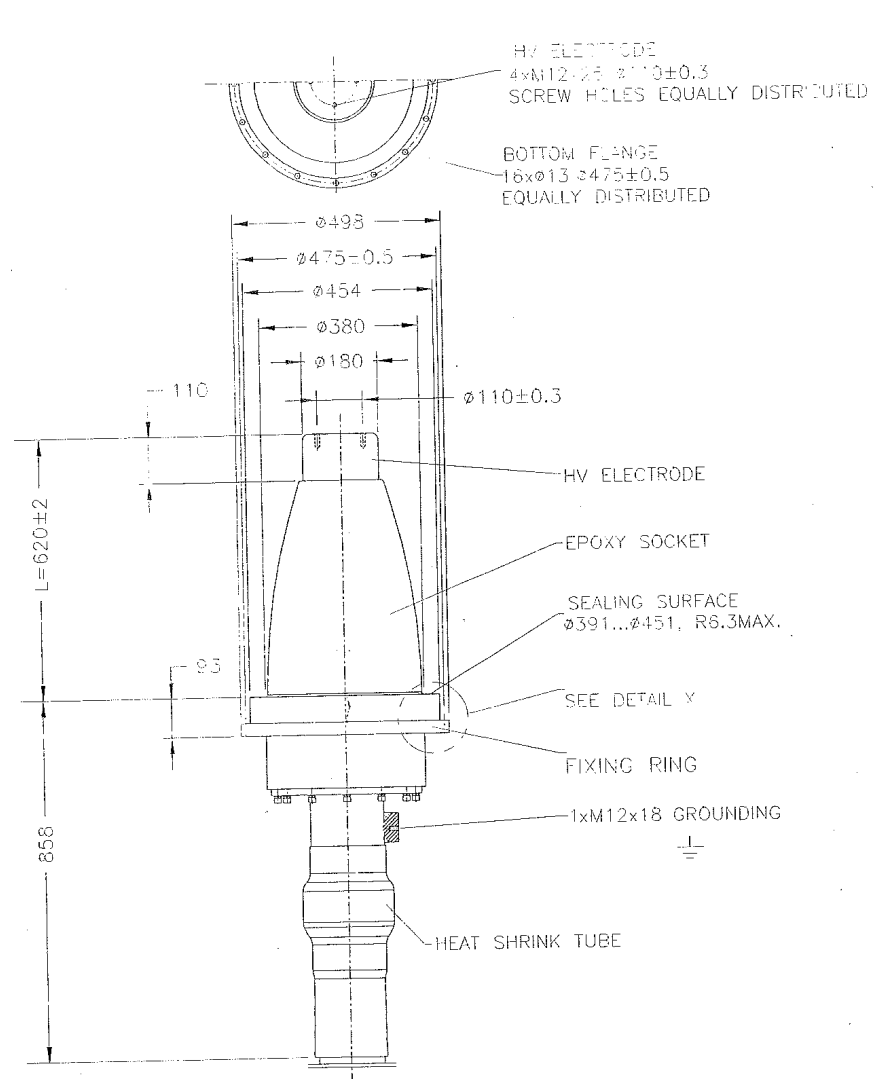
**MAHARSHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED**  
**Schedule-A**

<b>Sr. No.</b>	<b>SAP Material No.</b>	<b>Particulars of work</b>	<b>Unit</b>	<b>Ex-Works Unit Rate</b>	<b>GST @18%</b>	<b>Unit Rate with GST</b>
<b>1</b>		<b>GIS Connex Bushing</b> Suitable for 245kV, 1000 sqmm Power cable and compatible with existing GE make B105 type GIS module <b>GTP Enclosed</b>	<b>EA</b>			

-sd-  
**(V.V. Borkar)**  
**Executive Engineer**  
**EHV O & M Division –I, Pune**

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FRAMING NO. : 001/001/001/001



NOTE:  
 ▲ THE PARTS MARKED IN UPSIDE DRAWING ARE NOT PROVIDED WITH PRODUCT TOGETHER.

**APPROVED**  
 [Signature]  
 Executive Engineer (D&E-S2)  
 Design Office Section  
 M.S.E.P.C.L. "Prakashganga"  
 BKC, Bandra (East), Mumbai - 51

TECHNICAL PARAMETER	
CONDUCTOR CROSS-SECTION (mm <sup>2</sup> )	1000
CABLE INSULATION DIAMETER (mm)	91.7
MAX. OPERATING VOLTAGE U <sub>m</sub> (kV)	245
LIGHTNING IMPULSE WITHSTAND VOLTAGE (BIL) (kV)	1050
AC WITHSTAND VOLTAGE (kV)	318

REV	DATE	BY	CHKD	APPD	STP
REV1					
REV2					
REV3					
REV4					
REV5					
REV6					
REV7					
REV8					
REV9					
REV10					

VENDOR: RAYCHEM RPG PVT. LTD.  
 Raychem RPG R (TE CONNECTIVITY-RPG ENTERPRISES JV)  
 CLIENT: MAHARASHTRA STATE ELECTRICITY TRANS.CO.LTD.  
 PROJECT: 220/230KV SUBSTATION, KONDHWA, DIST PUNE  
 LDA NO: MHTL/01/04M/2004/100-10/1-111974 R/L/R/04/0001/ALSTOM/104M/22.22.08.2014  
 TITLE: 245KV INDOOR DRY TYPE GIS TERMINATION, TYPE: PHVS-245  
 ALSTOM DRAWING NO. RYCA000049-003  
 SCALE: 1:1  
 SHEET: 01 of 01

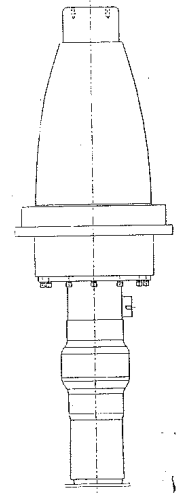
### Technical Data Sheet

Switchgear termination PHVS-245

245 kV

#### Basic Description

Switchgear termination dry type for cables with XLPE insulation;  
Pressure-tight epoxy resin housing for operation in SF6



#### Electrical data

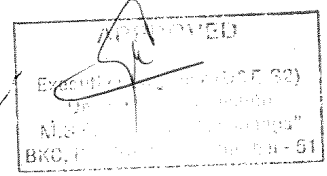
Relevant standard	IEC 62067 IEC 62271-209
Rated voltage Uo/U (Um)	kV 127 / 220 (245)
Rated frequency	Hz 50 / 60
Lightning impulse voltage 1,2/50 μs	kV 1050
AC voltage withstand test (30 min)	kV 318
Rated current	kA as per cable
Rated short-circuit current (conductor)	kA as per cable
Rated short-circuit current (sheath) 1s	kA 40
Creepage distance	mm 519

#### Mechanical data

Construction length	mm 620
Operating pressure SF6	MPa 4 - 8.5
Earth connection	1x M12

#### Design data

Diameter over prepared insulation [mm]	91.7
Diameter over sheath [mm]	129
Cable screen types	Corrugated Aluminium Sheath
Conductor Cross section (Cu) [mm <sup>2</sup> ]	1000
Conductor connection	Wedge Type/Mechanical Type
Material of housing	Epoxy resin
Material of connection bolt	Copper /Aluminium Alloy
Method of stress control	Geometric
Type of Stress cone	Pre-fabricated silicone rubber
Max. permissible dielectric stress at core screen	8 kV/mm (at core screen of cable)
Corona Shield	Not required for GIS
Installation temperature [°C]	0 to +50
Operation temperature [°C]	-50 to +50
Storage temperature [°C]	0 to +50



VENDOR: **Raychem RPG R** RAYCHEM RPG PVT. LTD.  
(TE CONNECTIVITY-RPG ENTERPRISES JV)

CLIENT: **MAHARASHTRA STATE ELECTRICITY TRANS.CO.LTD.**

PROJECT : 220/22KV SUBSTATION, KONDHWA, DIST PUNE  
LOA NO : MS/ETCL/CO/C&M/CONT./TRC-N/T-1413Pkg 8/5/08/SUPPLY/ALSTOM/10444/01.27.04.2014

TITLE : **245KV INDOOR DRY TYPE GIS TERMINATION, TYPE: PHVS-245**

REV	DESCRIPTION	DATE	BY	CHECKED	APPROVED	STATUS
REV6						
REV5						
REV4						
REV3						
REVC	VENDOR NAME ADDED	31.08.15	SK	FA	FA	
REVB	CUSTOMER TITLE BLOCK INCORPORATED	31.07.15	SK	FA	FA	
REVA	NEW DRAWING PREPARED	26.07.15	SK	FA	FA	

ALSTOM	ALSTOM T&D INDIA LTD WATER HOUSE, 4th FLOOR BANGALORE - 560 001	DRAWING NO. HVCA900049-004	TOTAL SH 01	SCALE NTS	REV 01
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