

PSGSG 19-20/006 REV.00	SPECIFICATIONS FOR			PRODUCT	GSM 245
	245kV POTENTIAL TRANSFORMER			DATE	12-12-2019
	DESCRIPTION			CONFIRMATION BY VENDOR	COMMENTS / DEVIATIONS
1.0	APPLICATION:				
	Potential transformer for 245 kV Gas Insulated substation application.			YES/NO	
2.0	Scope of Supply:				
	Two numbers of Potential transformer along with insulator as a standalone module.			YES/NO	
3.0	SPECIFICATION:				
3.1	Sl.no.	Parameter	Value		
	1	Rated Voltage (kV, rms)	220 KV	YES/NO	
	2	Frequency	50 Hz	YES/NO	
	3	Standards	IEC 61869-3	YES/NO	
	4	Secondary winding details		YES/NO	
		a) No. of secondary windings	2 (each with min. burden of 75 VA)	YES/NO	
		b) Rated secondary voltage (Volts)	110	YES/NO	
		c) Rated burden (VA)	200 VA	YES/NO	
		d) Accuracy class	0.2	YES/NO	
		e) Thermal Limit	2000 VA	YES/NO	
	5	Temperature rise at 1.1 times rated voltage with rated burden above specified ambient temp (deg. C)	As per IEC	YES/NO	
	6	Rated voltage factor and time	1.9 Un ≥30 sec	YES/NO	
	7	1.2/50 micro sec. Lightning impulse withstand test voltage (kV, peak)	1050	YES/NO	
	8	One minute power frequency withstand test voltage of primary (kV, rms)	460	YES/NO	
	9	One minute power frequency withstand test voltage of secondary (kV, rms)	2	YES/NO	
	10	Class of winding insulation	E/F	YES/NO	
	11	Rated SF6 gas pressure	3 - 5 bar (g) @ 20°C	YES/NO	
	12	Whether suitable for handling capacitive discharge current of cable	15 μF, 1.2Vph, Interval <12H	YES/NO	

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4.0	TESTS & REPORTS:		
4.1	Dimensional : All dimensions shall comply to design specifications.	YES/NO	
4.2	Item shall be subjected to all Routine tests specified in IEC 61869-3 and corresponding test reports shall be submitted along with material.	YES/NO	
5.0	QUALIFYING REQUIREMENTS:		
	The supplier shall be of repute with proven record and should have supplied same voltage class potential transformer for gas insulated substation application for at least last three years from the date of this enquiry. The supplier must submit along with the quotation (technical bid) at least two references to whom the supplier has supplied a similar material.	YES/NO	
6.0	PACKING :		
	The component shall be packed in seaworthy exportable packaging.	YES/NO	
7.0	GENERAL :		
	In case of doubts in drawings or specifications the supplier shall contact BHEL for clarifications.	YES/NO	