

PSGSG 11-12/09 REV.00	SPECIFICATIONS FOR			PRODUCT	GSM 245
	CT CORES			DATE	06.12.15
	DESCRIPTION			CONFIRMATION BY VENDOR	COMMENTS / DEVIATION S
1.0	APPLICATION:				
	Current Transformer Cores for Gas Insulated Switchgear Equipment			YES/NO	
2.0	Configuration:				
	The cores shall be ring type and designed within specified (ID) X (OD) X (H) dimensions.			YES/NO	
3.0	Quantity				
	Type – I : 6 No.s of Metering Core ,2000-1000/1A			YES/NO	
4.0	Specifications:				
4.1	Material: For metering core (Type I) : CRGO M3 Material shall be used preferably.			YES/NO	
4.2	Metering cores shall be developed with the following specifications:				
A	Sl.no.	Technical specification	Type I (Metering)		
	1	Standard	IEC 60044-I	YES/NO	
	2	Frequency	50 Hz	YES/NO	
	3	Ratio	2000-1000 / 1A	YES/NO	
	4	Burden (VA)	30VA	YES/NO	
	5	Class	0.2	YES/NO	
	6	Overload current/Rated factor	1.2 X Normal current	YES/NO	
	7	Accuracy class according to	2000 / 1 A	YES/NO	
	8	CT dimensions (ID) X (OD) X (H)	Approximately 322x 420x 50mm With Insulation	YES/NO	
	9	Tolerances (ID) X (OD) X (H)	+3,+3,±5	YES/NO	
	10	ISF	5	YES/NO	
	11	Quantity	6	YES/NO	

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5.0	Winding Process: Polyester film shall be built over the core for considerable thickness (at least few layers). Enameled copper wire shall be wound on this. The diameter of copper wire shall be minimum of 1.25 to 1.6 mm. Vendor shall specify the diameter of wire along with offer. Polyester film shall be wrapped between the winding layers. The soldered area shall be insulated with sleeve. Minimum two layers of Polyester film shall be wrapped after winding. Polyester band shall be developed after final insulation. The terminal connection shall be made with 4.0 Sq. mm silver plated, Teflon insulated high conductivity stranded copper wire/cable or equivalent. The terminal connections shall be held firmly so as not to transfer pull load on to soldered joint. The end of the terminal wire shall be tinned, ready for crimping/ soldering in to lugs. The final dimensions (IDxODxH) of the core shall be specified along with the offer.	YES/NO	
6.0	Qualifying Requirements: The supplier shall be of national / International repute with proven record and should have supplied similar cores at least for last three years. The supplier must submit along with the quotation a few references to whom the supplier has supplied a similar material.	YES/NO	
7.0	Tests and Reports:		
7.1	Dimensional : All dimensions shall comply to design specifications.	YES/NO	
7.2	The cores shall be subjected to all tests specified in IEC and corresponding test reports shall be submitted along with supply of Material.	YES/NO	
7.3	Following reports shall be submitted along with the delivery: 1. Magnetic characteristics of materials used. 2. Accuracy measurements at different currents / Current vs accuracy plots. 3. Knee voltage / performance parameters measurement characteristics. 4. Phase angle error plots at different currents. 5. All other measurements carried out to qualify the Core as per IEC 60044-1	YES/NO	
8.0	Packing : The cores shall be packed in high density cardboard boxes or equivalent, with a primary wrapped in polyethylene or equivalent and packed individually in dust free and moisture free boxes. The components shall be guaranteed against all manufacturing defects.	YES/NO	