

PSGSG 11-12/07 REV.00	<b>SPECIFICATIONS FOR</b>			PRODUCT	GSM 145
	<b>ZnO Blocks</b>			DATE	11.10.12
	DESCRIPTION			CONFIRMATION BY VENDOR	COMMENTS / DEVIATIONS
<b>1.0</b>	<b>APPLICATION:</b>				
	Metal-oxide (ZnO) blocks are required for limiting over voltages in power equipments of SF6 gas insulating medium.			YES/NO	
<b>2.0</b>	<b>Scope of Supply:</b>				
	Metal-oxide (ZnO) blocks - 190 Nos +/- 2% .			YES/NO	
<b>3.0</b>	<b>SPECIFICATION:</b>				
<b>3.1</b>	<b>Sl.no.</b>	<b>Parameter</b>	<b>Value</b>		
	1	Nominal discharge current	20 kA	YES/NO	
	2	Rated voltage	5 to 6 kV (rms)	YES/NO	
	3	Line discharge class	4	YES/NO	
	4	Residual voltage at 10kA	11 to 13 kV	YES/NO	
	5	High current impulse	2*100 kA, 4/10 $\mu$ s	YES/NO	
	6	Typical specific energy (energy absorption at long duration current withstand test per impulse and per kV rated voltage)	> 4 kJ/kV	YES/NO	
	7	Typical specific energy (energy absorption at long duration current withstand test per impulse and per kV continuous operating voltage)	> 5 kJ/kV	YES/NO	
	8	Reference current	<5 mA	YES/NO	
	9	Block diameter	Approx. 80mm + 5%	YES/NO	
	10	Block Height	Approx. 20mm+ 5%	YES/NO	

	11	S/c Current	> 40 kA	YES/NO
<b>3.2</b>		Metal oxide blocks shall be properly checked and free from cracks, holes or pustules on collar or metal splashers and chippings on collar surface etc.		YES/NO
<b>4.0</b>		<b>TESTS &amp; REPORTS:</b>		
<b>4.1</b>		Dimensional : All dimensions shall comply to design specifications.		YES/NO
<b>4.2</b>		The blocks shall be subjected to all tests specified in IEC 60099-4 and corresponding test reports of similar blocks shall be submitted along with technical offer for evaluation.		YES/NO
<b>4.3</b>		The sample blocks of this enquiry shall be performed all tests specified in IEC 60099-4 and corresponding test reports shall be submitted along with supply of material.		YES/NO
<b>5.0</b>		<b>QUALIFYING REQUIREMENTS:</b>		
		The supplier shall be of repute with proven record and should have supplied similar metal oxide blocks for electrical applications for 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
<b>6.0</b>		<b>PACKING :</b>		
		The component shall be packed in high density cardboard boxes, with a primary wrapped in polyethylene and packed individually in dust free boxes after degreasing. The component shall be guaranteed against all manufacturing defects.		YES/NO
<b>7.0</b>		<b>GENERAL :</b>		
		In case of doubts in drawings or specifications the supplier shall contact BHEL for clarifications.		YES/NO