PSGSG/ 2016-17/003	**Process Specifications for Copper chromium Material**	Drg.No.	
		Date	18.10.2016
		Product	GVM-36

S.NO	BHEL Specification	Vendor compliance	
		YES/NO	Remarks
1.0	**Application:** For use as contacts in gas insulated switchgear and other high current applications		
2.0	**Specifications :** Configuration & Size: Copper-chromium Material of size **1) Ø90±0.5 mm x 90±1mm, Qty :5 Nos.** **2) Ø80±0.5 mm x 90±1mm, Qty :5 Nos.**		
3.0	**Material: Cu-Cr alloy** Copper : 99% Chromium: <1 % Balance: Non-reactive, High electrical conductivity material like Ag, etc. This alloy shall be made using fine alloying practices so as to minimize occlusion of gases. The copper used for alloying shall be 99.97% pure. Electrolytic grade is preferred		
4.0	**Electrical Conductivity :** The electrical conductivity of the material should be ≥ 82 % (IACS)		
5.0	**Tests & Inspection:** 1) The supplied material shall be subjected to conductivity measurement. The sample shall exhibit IACS conductivity greater than or equal to 82%. 2) The components shall be physically inspected for cracks and blow holes. No blow holes are permitted. 3) Material shall be inspected for dimensional checkups. Dimensional report shall be submitted along with supply		
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6.0	**Manufacturer's Test Certificate** The supplier shall submit copy of Manufacturer's test certificate		
7.0	**Warranty Certificate:** All supplied items to be provided with warranty for 12 months from date of receipt and acceptance		
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