PSGSG/ 2013-14/19	**Product Specification For Copper chromium Material**	Date	17.12.2013
		Product	GSM245

1.0	**Application:** For use as contacts in gas insulated switchgear and other high current applications.
2.0 **2.1**	**Specifications :** Configuration & Size: Copper-chromium Material of size **1) Ø120±0.5 mm x 85mm, Qty : 6 Nos.** **2) OD=120mm,ID=90mm x 155mm, Qty: 10 Nos**
2.2	**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.
2.3	**Electrical Conductivity :** The electrical conductivity of the material should be ≥ 82 % (IACS)
3.0	**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. 4) Dimensional report shall be submitted along with supply.

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4.0	**General:**	
4.1	The supplier shall submit the material test certificate at the time of delivery.	
4.2	The rods shall be wrapped in polyethylene and packed individually in dust free boxes.	
4.3	The components shall be free from dirt, grease and loose particles.	
4.4	Quotations shall be submitted on price per piece basis only.	
4.5	Perpendicularity shall be within +/- 0.05	
4.6	In case of any doubts in specifications supplier shall contact BHEL for clarifications.	
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