

Laboratory **Ordnance Factory Katni Laboratory, Katni Premises, Katni, Madhya Pradesh**

Accreditation Standard **ISO/IEC 17025: 2005**

Discipline **Mechanical Testing** **Issue Date** **24.05.2016**

Certificate Number **T-0088** **Valid Until** **23.05.2018**

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. MECHANICAL PROPERTIES OF METALS				
1.	Mechanical Properties of Non Ferrous Materials	Tensile Test	IS 1608: 2005	Upto 400 kN
		Tensile Strength		Upto 25000 N
		Elongation %	IS 1608: 2005	1 % to 80 %
		Vickers Hardness Testing	IS 1501: 2002	From 50 to 130 (HV5) From 50 to 130 (HV10) From 50 to 130 (HV30)
		Bend Test	IS 1599: 1985 (RA 2006)	180 ° Mandrel 75mm Radius of bending pane (11 R & 16 R)
	Flattening Test	IS2328: 2005	Upto 200 mm diameter tube	
II. METALLOGRAPHY TEST				
1.	Metallography Tests	Micro Structural Analysis copper & its alloys	IS 7739 (Part 4): 1975 (RA 2003), ASM Vol. 7	50 x to 1000 x
		Grain size determination of Copper & copper alloys by comparison method	IS 4748: 1988 (RA 2003)	At 75 x 0.005 mm to 0.200 mm

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