

**Laboratory** Chaitanya NDT & Analytical Services, S. No. 13/6, 1/1 A, Nanded Phata, Sinhagad Road, Pune Maharashtra

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

**Discipline** Mechanical Testing **Issue Date** 06.05.2015

**Certificate Number** T-3408 **Valid Until** 05.05.2017

**Last Amended on** - **Page** 1 of 1

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>I. MECHANICAL PROPERTIES OF MATERIALS</b>				
<b>1</b>	<b>Metallic Material</b>	Tensile Test	ASTM A 370-11	
		0.2% Proof Stress	ASTM E8 / E 8M-09	60 N/mm <sup>2</sup> to 1500 N/mm <sup>2</sup>
		Ultimate Tensile Strength	IS 1608: 2005	60 N/mm <sup>2</sup> to 2000 N/mm <sup>2</sup>
		Yield Strength		60 N/mm <sup>2</sup> to 1500 N/mm <sup>2</sup>
		Elongation %		1 % to 80 %
		Reduction In Area		1 % to 80 %
		Charpy Impact Test (V Notch)	IS 1757: 1988	2 J to 300 J (at Room Temperature)
		Brinell Hardness Test	IS 1500 (Part 1): 2013	126 HBW to 500 HBW (Diameter 2.5/187.5 Kgf)
		Rockwell Hardness Test Scale A	IS 1586 (Part 1): 2012	20 HRA to 95 HRA
		Scale B		20 HRBW to 100 HRBW
Scale C		20 HRC to 70 HRC		
	Bend Test	IS 1599: 2012	Qualitative (Mandrel Diameter: 4, 6, 8, 10, 12, 16, 20, 24, 32 mm)	
	Flattening Test	IS 2328: 2005	Qualitative	

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