

**Laboratory** A. D. Electro Steel Company Pvt. Ltd., Baltikuri, (Surkimill) Kalitala, Howrah, West Bengal

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

**Discipline** Mechanical Testing **Issue Date** 10.01.2015

**Certificate Number** T-2431 **Valid Until** 09.01.2017

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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
<b>I. MECHANICAL PROPERTIES OF MATERIALS</b>				
1.	<b>Metals (Ferrous)</b>	Yield Strength Ultimate Tensile Strength % Elongation % Reduction in Area	IS 1608: 2005 (RA 2011)	20 MPa to 700 MPa 30 MPa to 1000 MPa 10 % to 40 % 5 % to 70 %
		Brinell Hardness	IS 1500(Part 1): 2013	130 HBW to 500 HBW
		Charpy Impact (V-Notch)	IS 1757: 1988 (RA 2009)	5 J to 300 J
<b>II. METALLOGRAPHY TEST</b>				
1.	<b>Metals (Ferrous)</b>	Metallographic Examination	IS 7739 (Part 1): 1975 (RA 2003) IS 7739 (Part 5): 1976 (RA 2003)	Qualitative (100 x, 200x & 450x Magnifications)

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