

Laboratory Electrosteel Castings Limited, 30, B. T. Road Khardah, Sukchar,
24 Parganas (N), Kolkata, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Discipline Mechanical Testing **Issue Date** 28.06.2014

Certificate Number T-1429 **Valid Until** 27.06.2016

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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 MATERIALS				
1.	Pipes & Fittings	TENSILE (YS, 0.2% Proof Stress, UTS, % El)	IS: 1608: 2005 (RA 06) BS EN ISO 6892-1: 2009 ASTM E-8M	UTM-01 0-10 kN/50N 0-20 kN/50N 0-40 kN/100N 0-100 kN/500N 0-200 kN/500N UTM-02 0 - 50 kN/0.5N 0 - 100 kN/0.5N
		Brinell Hardness	IS: 1500:2005 ISO: 6506-1: 2005	130 – 300 HBW 5/750
		Charpy Impact Test	ASTM E23-12c: 2012	3.75 - 150 J / 0.01J
II. METALLOGRAPHY TEST				
1.	Pipes & Fittings	Micro Structural Analysis (By Comparison)	ISO 945-1: 2008 Metals Hand Book (ASM Volume-7), and IS:7739 (Part-V): 1976 RA 2007	Qualitative

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