

Laboratory	Standard (Madras) Laboratories, #4, Plot No. 44, 45, 46, VGP Rajesh Nagar, Narayanapuram, Pallikaranai, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	05.06.2015
Certificate Number	T-0922	Valid Until	04.06.2017
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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
I. MECHANICAL PROPERTIES OF MATERIALS				
1.	Metals and Alloys	Tensile Test Yield Stress Elongation Reduction Area	IS 1608: 2005 ASTM A370: 2014 ASME (Sec IX): 2013 ASTM E8/8M: 13	0.10 kN to 400 kN 0.10 % to 90 % 0.10 % to 95 %
		Rockwell Hardness Test	IS 1586: 2012 ASTM E18: 2014	HRA 30 to 50 HRA 50 to 90 HRB 30 to 100 HRC 20 to 50 HRC 51 to 70
2.	Ferrous Alloys	Impact Izod and Impact Charpy (U-Notch/V-Notch)	IS 1598: 1997 (RA 2003) IS 1499: 1977 (RA 2003) IS 1757: 1988 (RA 2003)	Izod 2 J to 168 J Charpy 2 J to 300 J Room Temperature (+) 23 °C to (-) 160 °C
3.	Metals & Tubes	Flattening Test Flaring Test	IS 2328: 2005	Qualitative (5.0 mm to 300 mm OD)
		Drift Expansion Test	IS 2335: 2005	Qualitative (OD 150 mm, 10 mm)
4.	Steel Plates & Strip	Bend Test Guide Bend	IS 1599: 2012 ASTM E 290: 2014	Qualitative (6.0, 8.0, 10.0, 12.0, 16.0, 18.0, 20.0, 24.0, 28.0, 30.0, 32.0, 36.0, 38.0, 40.0, 46.0, 54.0, 60.0, 75.0, 80.0, 90.0, 100.0, 120.0) mm
5.	Welded Specimens	Root Bend Face Bend Side Bend	ASME (Sec IX): 2013	Qualitative (1 mm to 25 mm 180 ° Angle)

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6.	Wrought Steel Products	Macro Etching Test	ASTM E 340: 13 ASME (Sec IX): 2013 IS 11371: 1985 (RA 2003)	Qualitative (Visual Examination)
7.	Reinforcement Steel	Rebend Test Mass per Run meter	IS 1786: 2008	Qualitative (6.0, 8.0, 10.0, 12.0, 16.0, 18.0, 20.0, 24.0, 28.0, 30.0, 32.0, 36.0, 38.0, 40.0, 46.0, 54.0, 60.0, 75.0, 80.0, 90.0, 100.0, 120.0) mm
8.	Steel Products	Proof Load Test	IS 15568: 2005	Qualitative (0 to 400 kN)
9.	Austenitic Stainless Steel, Stainless Steel	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steel	ASTM A 262: 2014 Practice E IS 10461 (Part 1): 1994 (RA 2006)	Qualitative (20 x to 250 x)

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