

Laboratory	Quality Marking & Testing Laboratory, M.P. Laghu Udyog Nigam Limited, Pologround Industrial Area, Indore, Madhya Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	30.04.2015
Certificate Number	T-0263	Valid Until	29.04.2017
Last Amended on	06.05.2015	Page	1 of 3

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 MATERIAL			
1.	Ferrous & Non-Ferrous Metals	Yield Strength	IS 1608: 2005	0.20 kN to 400 kN
		Proof Stress		0.02 kN to 50 kN
		Tensile Strength		1 N to 2500 N
		Elongation		1 % to 50 %
		Bend Test	IS 1599: 1985 (RA 2006)	0.20 kN to 400 kN
		Rockwell Hardness Test	IS 1586: 2000 (RA 2006)	20 HRB to 100 HRB
		Vickers Hardness Test	IS 1501: 2002 IS 1367 (Part 6): 1994 (RA 1999)	30 HV to 1900 HV Test Load HV-5, HV-10, HV-15, HV-20, HV-30, HV-40, HV-50
		Rockwell Hardness Test	IS 1586: 2000	20 HRC to 70 HRC
		Brinell Hardness Test	IS 1500: 2005	100 HBW to 350 HBW Test Load 187.5 kgf Ball Dia. 2.5 mm
		Charpy Impact Test	IS 1757: 1988 (RA 2003)	2 J to 300 J
		Izod Impact Test	IS 1499: 1977 (RA 2003) IS 1598: 1977 (RA 2003)	2 J to 150 J
	Wrapping Test	IS 1755: 1983 (RA 2001)	0.3 mm to 5.0 mm	

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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
2.	Ferrous & Non-Ferrous pipes	Bend Test upto 90 °	IS 2329: 2005	Pipe dia. (20, 80, 90, 110) mm
3.	High Strength Deformed Bar	Rebend Test	IS 1786: 2008	0.20 kN to 400 kN
4.	Steel Tube/pipes	Flattening Test	IS 2328: 2005	0.20 kN to 400 kN
5.	Ferrous Sheet/strip	Modified Erichsen Cupping Test	IS 10175 (Part 1): 1993 (RA 2003)	0.20 mm to 2.0 mm thick sheet
6.	Concrete Cubes Burnt Clay Brick	Compressive Strength	IS 516: 1959 (RA 2004) IS 3495 (Part 1): 1992 (RA 2002)	2.5 kN to 1000 kN 0.20 kN to 400 kN
7.	Ferrous Metals	Torsion Test	IS 1717: 1985 (RA 2006)	Wire dia. 1.50 mm to 10 mm
		Shear Test	IS 5242: 1979 (RA 2006) IS 10102: 1982 (RA 2005)	0.20 kN to 400 kN
8.	Hard Drawn Wire	Reverse Bend Test	IS 432 (Part 2): 1982 (RA 2004)	Wire dia. 3.00 mm to 8.00 mm
9.	Hot Rolled Rivet	Dump Test	IS 1148: 1982 (RA 2004)	2.5 kN to 1000 kN
10.	Galv.Sheet, HR Sheet, Galv. Barbed Wire, MS Medium & Hard Drawn wire, Structural Steel, MS Wire, High Deformed Steel, Leaded Tin Bronze casting	General Dimensions : Thickness	IS 277: 2003 IS 1730: 1989 (RA 2004)	0.01 mm to 100 mm
		Length	IS 278: 1978 (RA 2001) IS 432 (Part 1 & 2): 1982 (RA 2004)	1 m to 5 m 0.02 mm to 100 mm

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