

Laboratory	Quality Assurance Lab, Hot Strip Mill of JSW Steel Limited, Dolvi Works, Geetapuram, Dolvi, Taluka: Pen, Dist: Raigad, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	12.02.2015
Certificate Number	T-2460	Valid Until	11.02.2017
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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.	Hot Rolled Coils, Sheets, Plates	Tensile Yield Stress, Proof Stress Ultimate Tensile Strength % Elongation % Reduction IN Area	IS 1608: 2005 ASTM A370-2014 EN ISO 6892-1-2009	170 N/mm ² to 800 N/mm ² 280 N/mm ² to 1000 N/mm ² 8 % to 50% 15 % to 50%
		Bend	IS 1599: 2012 ASTM A370-2014	Qualitative (Mandrel dia: 2,4,6,8,10,12,14,16,18, 20,22,24, 26,28,30,32,34, 36,38,40) mm
		Impact Izod	IS 1598: 1977 ASTM E23-2012	Upto 170 J
		Charpy	IS 1757: 1988 ASTM E23-2012 ISO 148-1-2009	Upto 300 J
		Erichsen Cupping Test Travel Thickness	IS 6240-2008	Upto 35 mm Upto 3.5 mm
		Hardness Brinell Hardness	IS 1500-2013 ASTM E-10-2014 EN ISO 6506-1- 2014	100 HBW to 300 HBW (2.5/187.5kg)
		Rockwell Hardness	IS 1586-2012 ASTM E-18-2014 EN ISO 6508-1- 2005	Upto 100 HRB Upto 65 HRC

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		Vickers Hardness	IS 1501 (Part 1): 2013 ASTM E-384-2011 EN ISO 6507-1- 2005	100 HV5 to 250 HV5 100 HV10 to 300 HV10
II. METALLOGRAPHY TEST				
		Microstructure Analysis	SOP no. QS/LAB/P/18 Issue no.01 dtd.10.02.15 Rev. 0	Qualitative (Magnification: 50X to 1000X)
		Estimation of Grain Size by Microscopic Method	IS 4748: 2009 ASTM E112-2013	1 to 10 (Magnification: 100X)
		Determination of Inclusion Rating	IS 4163: 2004 ASTM E45-2013	Qualitative (Magnification: 50X to 1000X)

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