

Laboratory	Shyam Steel Industries Limited, Raturia Industrial Area, Angadpur, Durgapur, West Bengal		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	17.12.2013
Certificate Number	T-2747	Valid Until	16.12.2015
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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
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MECHANICAL PROPERTIES OF MATERIALS

1.	Mechanical Properties of Materials(Ferrous) (IS 2062 : 2011)	<u>Tensile test</u>	IS 1608 :2005	
		I. Yield Stress		20kN to 700kN
		II. Tensile Strength		20kN to 900kN
		III. % Elongation		10% to 45%
		Bend Test	IS 1599 : 1985	Mandrell dia (16 mm to 288mm)
2.	High Strength Deformed Steel Bars (HSD Bar)	<u>Tensile test</u>	IS 1608 :2005	
		I. Yield Stress		20kN to 700kN
		II. Tensile Strength		20kN to 900kN
		III. % Elongation		10% to 35%
		Deformation Surface characteristics (Cl. No. 5.2)	IS 1786 : 2008	0.6 mm ² /mm to 7.0 mm ² /mm
		Bend Test	IS 1599 : 1985 IS 1786 : 2008	Mandrell dia (16 mm to 288 mm)
		Rebend Test	IS 1786: 2008	Mandrell dia (40 mm to 280 mm)

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3.	HSD Bar & Mechanical Properties (Ferrous) (IS 2062 : 2011)	Mass/Meter	IS 1786 :2008 IS 2062:2011 IS 1852:1985	0.2 kg/m to 10.0 kg/m

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