

**Laboratory**                      **Mechanical Testing Laboratory, McNally Sayaji Engineering Limited,  
P.O.-Kumardhubi, Dist-Dhanbad, Jharkhand**

**Accreditation Standard**    **ISO/IEC 17025: 2005**

**Certificate Number**        **TC-7825** *(in lieu of T-1433)*

**Page 1 of 1**

**Validity**                        **22.08.2018 to 21.08.2020**

**Last Amended on 30.08.2018**

Sl.	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 TESTING**

<b>I.</b>	<b>MECHANICAL PROPERTIES OF MATELS</b>			
<b>1.</b>	<b>Ferrous &amp; Non Ferrous Material</b>	Tensile Test	IS 1608: 2005 (RA 2011), ASME Sec.IX:2017 Cl. QW-462.1(a), QW462.1(d)	(10 to 40) kN/0.08 kN
		UTS		(20 to 100) kN/0.2 kN
		YS		(40 to 200) kN/0.4kN
		Elongation		(80 to 400) kN/0.8 kN
		Réduction area		
<b>2.</b>	<b>Ferrous Materials (Rods, Bars, Plates)</b>	Bend Test	IS 1599:2012	Qualitative (Mandrel Sizes:- 16mm, 20mm, 22mm, 24mm, 28mm, 30mm, 36mm, 40mm, 42mm, 44mm, 48mm, 50mm, 54mm, 60mm, 115mm)
<b>3.</b>	<b>Ferrous Materials (Welded)</b>	Bend Test	ASME Sec.IX:2017 Cl.QW462.2 &QW462.3(a)	Qualitative (Mandrel Sizes:- 16mm, 20mm, 22mm, 24mm, 28mm, 30mm, 36mm, 40mm, 42mm, 44mm, 48mm, 50mm, 54mm, 60mm, 115mm)
<b>4.</b>	<b>Ferrous Tube</b>	Flattening Test	IS 2328:2005 (RA2011)	Qualitative (Up to 200 mm OD & 10 mm thick)