

<b>Laboratory</b>	<b>Metallurgical Laboratory, Ordnance Factory, Yeddumailaram, Medak (Dist.), Telangana</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Mechanical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-0109</b>	<b>Valid Until</b>	<b>18.10.2016</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I. MECHANICAL PROPERTIES OF MATERIALS</b>				
1.	<b>Steel, Aluminium, Copper</b>	Ultimate Tensile Strength	IS 1608 : 2005	Upto 2000 N/mm <sup>2</sup>
2.	<b>Ferrous/Non-Ferrous</b>	Bend Test	IS 1599 : 1985	Qualitative (Mandrel dia 10 mm)
3.	<b>Pipes</b>	Flattening Test	IS 2328 : 1983	Dia Max. 50.0 mm
4.	<b>Springs</b>	Compression	IS 7906 : 2004 Pt. 5	Upto 350 mm length 50 mm dia Max.
5.	<b>Metals</b>	Izod Impact V notch	IS 1598 : 1977 (RA 2009)	Upto 150 Joules at room temp.
		Charpy Impact V notch	IS 1757 : 1988 (RA 2009)	Upto 300 Joules at room temp.
		Vickers Hardness	IS 1501 : 2002	Upto 850 HV (1 kg, 10 kg, 30 kg)
		Rockwell Hardness	IS 1586 : 2000	HRB 20 to HRB 100 HRC 20 to HRC 60
		Brinell Hardness	IS 1500 : 2005	Upto 500 BHN 5 mm/250 kg for Al 5 mm/750 kg for Steel 10 mm/3000 kg for Steel
		Micro Hardness	ASTM E 384 - 2011	0.10 N to 9.8 N

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<b>II. METALLOGRAPHY TEST</b>				
1.	<b>Ferrous &amp; non Ferrous metals</b>	Grain Size	ASTM E 112 – 1996	1 to 8
2.	<b>Steels</b>	Depth of Decarburization layer	IS 6396 : 2000	0 to 10 mm
		Case Depth	IS 6416 : 1988	0 to 10 mm
3.	<b>Gray Cast Iron, S G Cast Iron Aluminium Alloys</b>	Macro and Micro Structure	ASTM Atlas Vol.9/88	Qualitative

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