

**Laboratory**                                **Material Inspection Laboratory, Unit No: 2, Regal Industrial Estate,  
Ground Floor, A. D. Marg, Sewree (W), Mumbai, Maharashtra**

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

**Discipline**                                **Chemical Testing**                                **Issue Date**    **24.11.2015**

**Certificate Number**                **T-2708**    **Valid Until**    **23.11.2017**

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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
<b>I. METAL &amp; ALLOYS</b>				
<b>1.</b>	<b>Carbon and Low Alloy Steels</b>	Carbon	IS 8811: 1998	0.040 % to 1.00 %
		Sulfur	IS 8811: 1998	0.005 % to 0.055 %
		Manganese	IS 8811: 1998	0.20 % to 1.60 %
		Silicon	IS 8811: 1998	0.20 % to 1.00 %
		Phosphorous	IS 8811: 1998	0.005 % to 0.055 %
		Chromium	IS 8811: 1998	0.15 % to 1.5 %
		Nickel	IS 8811: 1998	0.02 % to 1.70 %
		Molybdenum	IS 8811: 1998	0.025 % to 1.0 %
		Copper	IS 8811: 1998	0.02 % to 0.40 %
		Vanadium	IS 8811: 1998	0.005 % to 0.50 %
		Aluminum	IS 8811: 1998	0.015 % to 0.15 %
		Cobalt	IS 8811: 1998	0.005 % to 0.045 %
Niobium	IS 8811: 1998	0.005 % to 0.055 %		
<b>2.</b>	<b>Stainless Steel</b>	Carbon	IS 9879: 1998	0.010 % to 0.30 %
		Sulfur	IS 9879: 1998	0.005 % to 0.030 %
		Manganese	IS 9879: 1998	0.5 % to 2.0 %
		Silicon	IS 9879: 1998	0.20 % to 1.50 %

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	Stainless Steel	Phosphorous	IS 9879: 1998	0.005 % to 0.040 %
		Chromium	IS 9879: 1998	8.0 % to 23.0 %
		Nickel	IS 9879: 1998	2.0 % to 15.0 %
		Molybdenum	IS 9879: 1998	0.015 % to 3.0 %
		Copper	IS 9879: 1998	0.01 % to 0.30 %
3.	Ferrous & Non Ferrous Alloys	<b>By XRF : (Positive Material Identification)</b>		
		Chromium	ASTM E 1476-04 (2010)	Qualitative
		Nickel	ASTM E 1476-04 (2010)	Qualitative
		Molybdenum	ASTM E 1476-04 (2010)	Qualitative
		Vanadium	ASTM E 1476-04 (2010)	Qualitative
		Tungsten	ASTM E 1476-04 (2010)	Qualitative
		Cobalt	ASTM E 1476-04 (2010)	Qualitative
		Niobium	ASTM E 1476-04 (2010)	Qualitative
		Titanium	ASTM E 1476-04 (2010)	Qualitative
		Copper	ASTM E 1476-04 (2010)	Qualitative
	Iron	ASTM E 1476-04 (2010)	Qualitative	
	Manganese	ASTM E 1476-04 (2010)	Qualitative	

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Sachin Tomar  
Convenor

N. Venkateswaran  
Program Manager