

**Laboratory** Skipper Limited (Technical Service Department), N.H.-6,  
Village - Madhavpur, P.O. Mahishrekha, Dist-Howrah, West Bengal

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

**Discipline** Chemical Testing **Issue Date** 29.10.2015

**Certificate Number** T-2641 **Valid Until** 28.10.2017

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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.</b>	<b>METALS AND ALLOYS</b>			
<b>1.</b>	<b>Carbon Steel &amp; Low Alloy Steel</b>	C	ASTM E 415-14	0.03 % to 1.19 %
		Si		0.01 % to 1.0 %
		Mn		0.10 % to 1.60 %
		P		0.003 % to 0.13 %
		S		0.005 % to 0.10 %
		Cr		0.003 % to 0.80 %
		Mo		0.001 % to 0.10 %
		Ni		0.05 % to 0.25 %
		Al		0.02 % to 0.10 %
		Co		0.001 % to 0.30 %
		Cu		0.015 % to 0.20 %
		Nb		0.02 % to 0.10 %
		Ti		0.004 % to 0.2 %
		V		0.004 % to 0.2 %
<b>2.</b>	<b>Plain Carbon and Low Alloy Steel</b>	C	IS 228 (Part 1): 1987 (RA 2007)	0.05 % to 1.1 %
		Mn	IS 228 (Part 2): 1987 (RA 2002)	0.1 % to 1.60 %
		Si	IS 228 (Part 8): 1989 (RA 2004)	0.05 % to 1.0 %

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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
	Plain Carbon and Low Alloy Steel	S	IS 228 (Part 9): 1989 (RA 2004)	0.01 % to 0.15 %
		P	IS 228 (Part 3): 1987 (RA 2002)	0.02 % to 0.15 %
3.	Zinc Coated Iron & Steel	Mass of zinc coating	IS 6745: 1972 (RA 2006)	360 g/m <sup>2</sup> to 1500 g/m <sup>2</sup>
		Uniformity of coating	IS 2633: 1986 (RA 2006)	Qualitative
		Thickness of coating	SOP Doc. No. SL/LAB/SOP/02	Upto 150 micron
		Adhesion test (by pivoted hammer)	IS 2629: 1985 (RA 2006)	Qualitative

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