

Laboratory **Shri Krishna Testing and Engg. Services Pvt. Ltd., Plot No. 65, Sector-58, Ballabgarh, Faridabad, Haryana**

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

Certificate Number **T- 4356** **Issue Date** **15.12.2016**

Discipline **Chemical Testing** **Valid Until** **14.12.2018**

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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
I.	METALS & ALLOYS			
1.	Carbon steel & Alloys Steel Stainless Steel	C	IS: 228 (Pt.1) 1987(RA 2002) / IS 12308 (Pt.2) 2002	0.05% to 2.5%
		Mn	IS: 228 (Pt.2) 1987 (RA 2002)	0.1 % to 8.0 %
		S	IS: 228 (Pt.9) 1989 (RA 2004)	0.01 % to 0.25%
		P	IS: 228 (Pt.3) 1987 (RA 2002)	0.01 % to 0.25%
		Ni	IS: 228 (Pt.5) 1987 (RA 2009)	0.1 % to 12.0%
		Cr	IS: 228 (Pt.6) 1987 (RA 2009)	0.1 % to 25.0%
		Mo	IS: 228 (Pt.7) 1989 (RA 2006)	0.10 % to 4.0%
		Si	IS: 228 (Pt.8) 1989 (RA 2009)	0.05 % to 4.0%
2.	Copper & Its Alloys	Cu	IS:3685 -1996 (RA 2006)	1.0 % to 99.9%
		Pb	IS:3685 -1996 (RA 2006)	0.1 % to 10.0 %
3.	Carbon and Low Alloy Steel	Al	ASTM E415- 2014	0 to 0.075 %
		B		0 to 0.007%
		C		0 to 1.1 %

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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
		Co		0 to 0.18 %
		Cr		0 to 2.25%
		Cu		0 to 0.5%
		Mn		0 to 2.0%
		Mo		0 to 0.6%
		Ni		0 to 5.0%
		P		0 to 0.085%
		S		0 to 0.055%
		Sn		0 to 0.045%
		Si		0 to 1.15%
		V		0 to 0.3%
		Ca		0.0005 % to 0.01%
		Zn		0.005- % to 0.03%

**Iti Saxena
Convenor**

**N. Venkateswaran
Program Manager**

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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
		N		0 to 0.015 %
4.	Stainless Steel	Al	ASTM E1086-14	0.005 % to 0.30 %
		B		0.0005 % to 0.004%
		C		0.005 % to 0.018 %
		Co		0.02 % to 0.24 %
		Cr		17 % to 18.0%
		Cu		0.01 % to 0.30%
		Mn		0.01 % to 2.0%
		Mo		0.01 % to 3.00%
		Ni		7.5 % to 13.0%
		Nb		0.05 % to 0.102%
		P		0.003 % to 0.15%
		S		0.003 % to 0.065%
		Sn		0.01 % to 0.20 %

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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
		Si		0.01 % to 0.90%
		Ti		0.01 % to 4.00%
		V		0.06 % to 1.00%
		W		0.02 % to 0.50%
		Ca		0.0005 % to 0.01%
		Zn		0.01 % to 0.03 %
		N		0.006 % to 0.045%
5.	Cast Iron	C	ASTM E -1999-11	2.20 % to 4.30%
		Cr		0.05 % to 0.60%
		Cu		0.08- % to 1.0%
		Mn		0.05 % to 1.50%
		Mg		0.02 % to 0.10%
		Ni		0.05 % to 1.00%
		P		0.01 % 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
		Pb		0.005 % to 0.10%
		S		0.01 % to 0.35%
		Si		1.00 % to 3.0%
		Sn		0.02 % to 0.20%
		V		0.05 % to 0.50%
6.	Aluminum & Its Alloys	Cr	ASTM E1251-11	0.001 % to 0.23 %
		Cu		0.001 % to 5.5 %
		Fe		0.2 % to 0.5 %
		Mn		0.001 % to 1.2 %
		Mg		0.03 % to 5.4 %
		Ni		0.005 % to 2.6 %
		Pb		0.05 % to 0.6 %
		Sn		0.06 to 0.3

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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
		Si		0.07 % to 8.33 %
		Zn		0.002 % to 3.0 %
		Ti		0.05 % to 0.12 %
		Cd		0.004 % to 0.50 %
		Co		0.4 to 0.6
		V		0.002 % to 0.022 %
2.	Metal Coating	Anodizing Coating	IS: 1868:1996 (RA 2006)	0.5 to 3.0 micron
		Zinc Coating	IS: 6745:1972 (RA 2006)	2 to 30 micron
3.	Corrosion Test	Corrosion test	IS: 9844-1981 (RA 2006)	Qualitative
II BUILDING MATERIALS				
4.	(Cement OPC/PPC)	Loss on Ignition	IS:4032 – 1985 (RA 2010)	0.1 to 5.0%
		Insoluble Residue		0.1 % to 40.0%
		Alumina		3.0 % to 17.0%
		Iron Oxide		0.5 % to 7.0%
		Calcium Oxide		30.0 % to 70.0%

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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
		Magnesium Oxide		0.5 % to 40.0%
		Total Sulphur (SO ₃)		0.5 % to 5.0 %
		Chloride		0.01 % to 0.15%
		Silica		10 % to 40 %

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