

Laboratory	Material Testing House (India) Limited, 50-96-4, North Extension, Seetammadhara, Visakhapatnam, Andhra Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	14.11.2014
Certificate Number	T-1341	Valid Until	13.11.2016
Last Amended on	-	Page	1 of 5

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. BUILDING MATERIALS				
1.	Cement	Loss on ignition	IS 4032 : 1985 (RA 2009)	0.1 % to 12 %
		Magnesium oxide	IS 4032 : 1985 (RA 2009)	0.1 % to 10 %
		Sulphuric Anhydride	IS 4032 : 1985 (RA 2009)	0.1 % to 5 %
		Insoluble Residue	IS 4032 : 1985 (RA 2009)	0.01 % to 45 %
		Silicon dioxide	IS 4032 : 1985 (RA 2009)	16 % to 26 %
		Aluminum oxide	IS 4032 : 1985 (RA 2009)	0.2 % to 10 %
		Iron oxide	IS 4032 : 1985 (RA 2009)	1 % to 10 %
		Calcium oxide	IS 4032 : 1985 (RA 2009)	55 % to 70 %
		Lime saturation factor	IS 8112 : 1989 (RA 2009) IS 12269 : 1987 (RA 2008) IS 269 : 1989 (RA 2008)	0.66 to 1.02
		Alumina to Iron oxide Ratio	IS 8112 : 1989 (RA 2009) IS 12269 : 1987 (RA 2008)	0.5 to 1.5
		Sulphide Sulphur	IS 4032 : 1985 (RA 2009)	0.1 % to 3.0 %
		Chlorides	IS 4032 : 1985 (RA 2009) (Amendment No. 2)	0.001 % to 1.0 %

Laboratory	Material Testing House (India) Limited, 50-96-4, North Extension, Seetammadhara, Visakhapatnam, Andhra Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	14.11.2014
Certificate Number	T-1341	Valid Until	13.11.2016
Last Amended on	-	Page	3 of 5

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II. WATER				
1.	Construction Water	Acidity (Neutralisation value using Phenolphthalein indicator)	IS 3025 (Part 22): 1986 (Clause 8.1)	(0.1 to 10) ml/100 ml
		Alkalinity (Neutralisation value using mixed indicator)	IS 3025 (Part 23): 1986 (Clause 8.0)	(0.1 to 50) ml/100 ml
		Organic matter Volatile residue	IS 3025 (Part 18): 1984	10 mg/L to 500 mg/L
		Inorganic matter Fixed residue	IS 3025 (Part 18): 1984	10 mg/L to 5000 mg/L
		Sulphate	IS 3025 (Part 24): 1986 (Gravimetric method)	10 mg/L to 1000 mg/L
		Chlorides	IS 3025 (Part 32): 1988 (Argentometric method)	10 mg/L to 3000 mg/L
		Suspended matter	IS 3025 (Part 17): 1984 (Gravimetric method)	10 mg/L to 3000 mg/L
		pH	IS 3025 (Part 11): 1983	1 to 13

Laboratory	Material Testing House (India) Limited, 50-96-4, North Extension, Seetammadhara, Visakhapatnam, Andhra Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	14.11.2014
Certificate Number	T-1341	Valid Until	13.11.2016
Last Amended on	-	Page	4 of 5

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
--------------	-----------------------------------	--------------------------------	--	---

III. METALLIC COATINGS AND TREATMENT SOLUTIONS

1.	Galvanised iron and steel	Mass of Zinc coating	IS 6745 : 1972	10 g/m ² to 2000 g/m ²
		Adhesion test	IS 2629 : 1985 (Clause 6.4)	Qualitative
		Uniformity of coating	IS 2633 : 1986	Qualitative

IV. METALS AND ALLOYS

1.	Plain Carbon steels	Carbon	IS 228 (Part 1): 1987	0.05 % to 2.5 %
		Manganese	IS 228 (Part 2): 1987	0.1 % to 1.5 %
		Phosphorous	IS 228 (Part 3): 1987	0.01 % to 0.15 %
		Silicon	IS 228 (Part 8): 1989	0.05 % to 5.0 %
		Sulphur	IS 228 (Part 9): 1989	0.01 % to 0.15 %
		2.	Plain Carbon & Low alloy Steels	Carbon
	Silicon	IS 8811 : 1998		0.05 % to 2.0 %
	Manganese	IS 8811 : 1998		0.01 % to 2.0 %
	Phosphorus	IS 8811 : 1998		0.005 % to 0.1 %
	Sulphur	IS 8811 : 1998		0.005 % to 0.1 %
	Chromium	IS 8811 : 1998		0.05 % to 5.0 %

