

Laboratory Indian Testing Centre Pvt. Ltd., 101, Sashco Bhawan, Azadpur, Delhi

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 24.10.2014

Certificate Number T-1698 **Valid Until** 23.10.2016

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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.	WATER			
1.	Water for Construction	pH Value	IS 3025 (Part 11): 1983 (RA 2002)	2 to 12
		ml.of 0.02'N'NaOH used to neutralize 100ml.of water sample.	IS 3025 (Part 22): 1986 (RA 2003)	1 ml to 50 ml
		ml.of 0.02'N'H2SO4 used to neutralize 100ml.of water sample.	IS 3025 (Part 23): 1986 (RA 1998)	1 ml to 50 ml
		Organic Solids	IS 3025 (Part 18): 1984 (RA 2006)	1 mg/l to 500 mg/l
		Inorganic Solids	IS 3025 (Part 18):1984 (RA 2006)	1 mg/l to 20000 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 1999)	1 mg/l to 5000 mg/l
		Sulphate	IS 3025(Part 24): 1986 (RA 1998)	10 mg/l to 2000 mg/l
		Total Suspended Solids	IS 3025 (Part 17): 1989 (RA 2006)	1 mg/l to 2000 mg/l
2.	Potable Water	pH Value	IS 3025 (Part 11): 1983 (RA 2002)	2 to 12
		Turbidity	IS 3025 (Part 10): 1984 (RA 2006)	0.1 NTU to 1000 NTU
		Total Hardness	IS 3025 (Part 21): 1983 (RA 2002)	1 mg/l to 10000 mg/l

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	Potable Water	Chloride	IS 3025 (Part 32): 1988 (RA 1999)	1 mg to 5000 mg
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006)	1 mg/l to 20000 mg/l
II. BUILDING MATERIALS				
1.	Cement	Loss on Ignition	IS 4032: 1985 (RA 2000)	0.1 % to 10.0 %
		Sulphuric Anhydride (SO ₃)	IS 4032: 1985 (RA 2000)	0.1 % to 10.0 %
		Silica (SiO ₂)	IS 4032: 1985 (RA 2000)	0.1 % to 35.0 %
		Ferric Oxide (Fe ₂ O ₃)	IS 4032: 1985 (RA 2000)	0.1 % to 20.0 %
		Alumina (Al ₂ O ₃)	IS 4032: 1985 (RA 2000)	0.1 % to 20.0 %
		Calcium Oxide (CaO)	IS 4032: 1985 (RA 2000)	0.1 % to 65.0 %
		Magnesium Oxide (MgO)	IS 4032: 1985 (RA 2000)	0.1 % to 10.0 %
		Insoluble Residue	IS 4032: 1985 (RA 2000)	0.1 % to 40.0 %
		Chloride (Cl)	IS 4032: 1985 (RA 2000), Ammd-2, 2010	0.005 % to 5.0 %
2.	Pozzolonic Materials	Loss on Ignition	IS 1727: 1967 (RA 1999)	0.1 % to 10.0 %
		Sulphuric Anhydride (SO ₃)	IS 1727: 1967 (RA 1999)	0.1 to 10.0 %
		Silica (SiO ₂)	IS 1727: 1967 (RA 1999)	0.1 % to 60.0%

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	Pozzolonic Materials	Ferric Oxide (Fe ₂ O ₃)	IS 1727: 1967 (RA 1999)	0.1% to 20.0 %
		Alumina (Al ₂ O ₃)	IS 1727: 1967 (RA 1999)	0.1% to 20.0 %
		Calcium Oxide (CaO)	IS 1727: 1967 (RA 1999)	0.1 % to 30.0 %
		Magnesium Oxide (MgO)	IS 1727: 1967 (RA 1999)	0.1 % to 20.0 %
		Chloride (Cl)	IS 12423: 1988 (RA 2000)	0.005 % to 1.00 %
3. Fly Ash		Loss on Ignition	IS 1727: 1967 (RA 1999)	0.1 % to 10.0 %
		Sulphuric Anhydride (SO ₃)	IS 1727: 1967 (RA 1999)	0.1 to 10.0 %
		Silica (SiO ₂)	IS 1727: 1967 (RA 1999)	0.1 % to 60.0%
		Ferric Oxide (Fe ₂ O ₃)	IS 1727: 1967 (RA 1999)	0.1% to 20.0 %
		Alumina (Al ₂ O ₃)	IS 1727: 1967 (RA 1999)	0.1% to 20.0 %
		Calcium Oxide (CaO)	IS 1727: 1967 (RA 1999)	0.1 % to 30.0 %
		Magnesium Oxide (MgO)	IS 1727: 1967 (RA 1999)	0.1 % to 20.0 %
		Chloride (Cl)	IS 12423: 1988 (RA 2000)	0.005 % to 1.00 %
4. Cement Mortar / Concrete		Ratio Analysis of Mortar (Cement Content)	IS 1199: 1959 (RA 1999)	10 % to 75 %
		Ratio Analysis of Concrete (Cement Content)	IS 1199: 1959 (RA 1999)	10 % to 75 %

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5.	Soil	pH Value	IS 2720 (Part 26): 1987 (RA 2007)	2 to 12
6.	Ceramic Tiles	Resistance to Staining	IS 13630 (Part 8): 2006	Qualitative (Visual Observation)
		Resistance to house-hold chemicals & swimming pool water cleaners	IS 13630 (Part 8): 2006	Qualitative (Visual Observation)
7.	Bitumen / Concretes	Water Content	IS 1211: 1978 (RA 1999)	0.05 % to 10.00 %
		Matter Soluble in Trichloroethylene	IS 1216: 1978 (RA 1999)	0.1 % to 100.0 %
		Bitumen Content	IS 1195: 2002	0.1 % to 50.0 %
8.	Timber Wood & Wood Products	Preservative Treatment Test / Spot Identification Test	IS 401: 2001 (RA 2002) IS 1659: 2004, Annex – K IS 1734 (Part 7): 1983	Qualitative (Visual Observation)
III. METALS & ALLOYS				
1.	Mild Carbon Steel	Sulphur	IS 228 (Part 9): 1989	0.01 % to 0.25 %
		Phosphorus	IS 228 (Part 3): 1987	0.01 % to 1.00 %
		Manganese	IS 228 (Part 2): 1989	0.1 % to 1.5 %
		Silicon	IS 228 (Part 8): 1989	0.05 % to 5.00 %
		Chromium	IS 228 (Part 6): 1987	0.5 % to 10.00 %
		Nickel	IS 228 (Part 5): 1987	0.5 % to 15.00 %

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IV. METALLIC COATINGS AND TREATMENT SOLUTIONS				
1.	Metallic Coatings	Mass of Zinc Coating	IS 6745: 1972 (RA 2001)	10 gm/m ² to 500 gm/m ²
		Thickness of Anodic Coating	IS 5523: 1983 (RA 1999)	5 μm to 50 μm

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