

Laboratory	MCB Testing Laboratory, Plot No. 1715, M.I.E., Bahadurgarh, Haryana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	25.07.2014
Certificate Number	T-2261	Valid Until	24.07.2016
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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. METAL & METAL PRODUCTS				
1.	Metals Ferrous	Carbon	IS-228(1):1987, RA:2008	0.05 to 2%
		Sulphur	IS 228(Pt-9):1989, RA:2009	0.01 to 1%
		Phosphorous	IS 228(Pt-3):1987, RA:2008	0.01 to 1%
		Manganese	IS 228(Pt-2):1987, RA:2008	0.1 to 3%
		Silicon	IS 228(Pt-8):1989, RA:2009	0.1 to 2%
II. BUILDING MATERIALS				
1.	Cement	CaO	IS 4032:1985,RA:2009	10 to 70%
		Al ₂ O ₃	IS 4032: 1985,RA:2009	1 to 20%
		Fe ₂ O ₃	IS 4032: 1985,RA:2009	1 to 20%
		SiO ₂	IS 4032: 1985,RA:2009	5 to 30%
		Insoluble residue	IS 4032: 1985,RA:2009	1 to 10%
		Magnesia	IS 4032: 1985,RA:2009	1 to 10%
		Total Sulphur	IS 4032: 1985,RA:2009	0.1 to 2.5%
		Sulphur	IS 4032: 1985,RA:2009	0.1 to 1%
		Loss on Ignition	IS 4032: 1985,RA:2009	1 to 10%
		Chloride	IS 4032: 1985,RA:2009	0.005 to 1%
		Alkali Contents	IS 4032: 1985,RA:2009	0.01-2%
2.	Cementations Material Fly ash/Micro Silica, Blast Furnace, Slag, Clinker	CaO	IS 1727:1967, RA:2008	1 to 30%
		SiO ₂	IS1727:1967, RA:2008	5 to 50%
		Al ₂ O ₃	IS1727:1967, RA:2008	3 to 30%
		Fe ₂ O ₃	IS1727:1967, RA:2008	1 to 10%
		Magnesia	IS1727:1967, RA:2008	1 to 5%
		Total Sulphur	IS 1727:1967, RA:2008	0.1 to 2.5%
		Loss on Ignition	IS 1727:1967, RA:2008	0.5 to 20%

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		Chloride	IS 4032: 2010	0.005 to 1%
		Alkali Contents	IS 4032: 2010	0.01 to 2%
		Reactive Silica	IS 3812(Pt 1&2):RA: 2003	1 to 40%
3.	Aggregate	Chloride	BS 812 (Pt-117):1988	0.005 to 0.5%
		Sulphate	BS 812 (Pt-118):1988	0.01 to 1%
		Organic impurities	IS 2386 (Pt-2): 1963, RA:2007	Qualitative
		Alkali Contents	IS 4032: 1985,RA:2009	0.01to 2%
		Alkali Aggregate Reactivity	IS 2386 (Pt-7) :1963, RA:2007	Qualitative
4.	Concrete	Chloride	BS 812(Pt-117):1988	0.005 to 1%
		Sulphate	BS 812(Pt-118):1988	0.01 to 1%
		Alkali Contents	IS 4032: 1985,RA:2009	0.001 to 2%
		Ratio Analysis	IS 1199/ASTM 1084C	Qualitative
5.	Admixture	Dry Material Content	IS 9103:1999, RA: 2004	5 to 50%
		Ash content	IS 9103 :1999, RA:2004	1 to 20%
		Relative Density	IS 9103 :1999, RA:2004	1 to 2
		pH	IS 9103: 1999, RA:2004	2 to 12
		Chloride ion content	IS 6925 :1973, RA::2008	0.005 to 1%
		Alkali Contents	IS 4032:1985, RA:2009	0.01 to 2%
6.	Soil	Sulphate	IS 2720(Pt-27):1977	0.01 to 2%
		pH	IS 2720(Pt- 26):1987	2 to 12

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III. WATER				
1.	Water for Construction	Acidity	IS:3025 (Pt-22)1986, RA:2009	0 to 100 mg/l
		Alkalinity	IS:3025 (Pt-23)1986, RA:2009	5 to 500 mg/l
		Organics Solids	IS:3025 (Pt-18)1984, RA:2006	5 to 300 mg/l
		Inorganics Solids	IS:3025 (Pt-18)1984, RA:2006	10 to 8000 mg/l
		Total Suspended Solids	IS:3025 (Pt-17)1984, RA:2006	10 to 2000 mg/l
		Sulphate	IS:3025 (Pt-24)1986, RA:2006	1 to 500 mg/l
		Chloride	IS:3025 (Pt-32)1988, RA:2009	5 to 5000 mg/l
		pH	IS:3025 (Pt-11)1983, RA:2006	2 to 12
2.	Drinking Water	Acidity	IS:3025 (Pt-22):1986, RA:2009	0 to 100 mg/l
		Alkalinity	IS:3025 (Pt-23):1986, RA:2009	5 to 500 mg/l
		Organics Solids	IS:3025 (Pt-18):1984, RA:2006	5 to 300 mg/l
		Inorganics Solids	IS:3025 (Pt-18):1984, RA:2006	10 to 8000 mg/l
		Total Suspended Solids	IS:3025 (Pt-17):1984, RA:2006	10 to 2000 mg/l
		Sulphate	IS:3025 (Pt-24):1986, RA:2006	1 to 500 mg/l
		Chloride	IS:3025 (Pt-32):1988, RA:2009	5 to 5000 mg/l
		pH	IS:3025 (Pt-11):1983, RA:2006	2 to 12
		Total hardness	IS:3025 (Pt-21):1983, RA:2006	5 to 7000 mg/l
		Turbidity	IS:3025 (Pt-10):1984, RA:2006	1 to 500NTU
		Iron	IS:3025 (Pt-53):2003, RA:2009	0.01 to 5 mg/l
		Fluoride	IS 3025 (Pt-60):2008	0.01 to 5 mg/l
		Residual Chlorine	IS 3025 (Pt-26):1986,RA:2009	0.01 to100 mg/l
		Oil & Grease	IS 3025 (Pt-39):1991,RA:2009	0.01 to 100 mg/l
		COD	IS 3025 (Pt-58):2006	2 to 600 mg/l
		Colour	IS 3025 (Pt-04):1983,RA:2006	Qualitative
		Odour	IS 3025 (Pt-05):1983,RA:2006	Qualitative

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	Drinking Water	Taste	IS 3025(Pt-07):1984,RA:2006	Qualitative
		Sodium	IS3025 (Pt-45):1993,RA:2009	0.01 to 500 mg/l
		Potassium	IS3025 (Pt-45):1993,RA:2009	0.01 to 300 mg/l

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