

Laboratory Stellar Test House, G-68, Sector 63, Noida, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 31.03.2015

Certificate Number T-3342 **Valid Until** 30.03.2017

Last Amended on - **Page** 1 of 4

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 (OPC/PPC/PSC)	Insoluble Residue	IS 4032: 1985 (RA 2005)	0.5 % to 35 %
		Loss on Ignition	IS 4032: 1985 (RA 2005)	0.5 % to 7 %
		Iron as Fe ₂ O ₃	IS 4032: 1985 (RA 2005)	1.0 % to 8 %
		Alumina as Al ₂ O ₃	IS 4032: 1985 (RA 2005)	3.0 % to 10 %
		Silica (As SiO ₂)	IS 4032: 1985 (RA 2005)	15 % to 25 %
		Sulphuric anhydride	IS 4032: 1985 (RA 2005)	0.1 % to 4.0 %
		Magnesia(as MgO)	IS 4032: 1985 (RA 2005)	0.5 % to 8 %
		Sulphur as Sulphide(S)	IS 4032: 1985	0.01 % to 3.0 %
		Chloride (as Cl)	IS 4032: 1985	0.005 % to 0.15 %
		Alkali Content (as Na ₂ O)	IS 4032: 1985 (RA 2005)	0.02 % to 2 %
		Calcium (as CaO)	IS 4032: 1985 (RA 2005)	20 % to 70 %
2.	Admixtures (Chemical)	pH	IS 9103: 1999 (RA 2008)	4 to 12
		Relative Density	IS 9103: 1999 (RA 2008)	1.000 to 1.500
		Dry Material Content	IS 9103: 1999 (RA 2008)	15 % to 45 %
		Ash Content	IS 9103: 1999 (RA 2008)	1 % to 20 %
		Chloride ion Content	IS 6925: 1973 (RA 2008)	0.01 % to 0.15 %

Laboratory Stellar Test House, G-68, Sector 63, Noida, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 31.03.2015

Certificate Number T-3342 **Valid Until** 30.03.2017

Last Amended on - **Page** 2 of 4

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Plaster of Paris	Sulphur Trioxide (as SO ₃)	IS 1288: 1982 (RA 2006)	5 % to 70 %
		Calcium Oxide (as CaO)	IS 1288: 1982 (RA 2006) Clause No. 10.1	5 % to 40 %
		Soluble Magnesium Salt (as MgO)	IS 2547(Part 1): 1976 (RA 2002) & IS 1288: 1982 (RA 1999) Appendix A	0.01 % to 0.5%
		Soluble Sodium Salt (as Na ₂ O)	IS 2547 (Part 1): 1976 & IS 4032: 1985 (RA 2005) Appendix A	0.01 % to 2 %
		Loss on Ignition	IS 2547 (Part 1): 1976 Appendix B	0.5 % to 20.0 %
		Free Lime	IS 2547 (Part 1): 1976 Appendix C	0.1 % to 5.0 %
4.	GI Sheet/ Pipe/ Aluminium Section	Mass of Zinc Coating	IS 6745: 1972	5 g/m ² to 1000 g/m ²
		Anodic Coating	IS 5523: 1993	1 micron to 200 micron
5.	Bitumen	Solubility in Trichloroethylene	IS 1216: 1978	10 % to 100 %
II. METALS & ALLOYS				
1.	Structural Steel	Carbon	IS 228 (Part 1): 1987 (RA 2008)	0.05 % to 2.50 %
		Sulphur	IS 228 (Part 9): 1989 (RA 2004)	0.01 % to 0.2 %
		Phosphorus	IS 228 (Part 3): 1987 (RA 2008)	0.01 % to 0.2 %

Laboratory	Stellar Test House, G-68, Sector 63, Noida, Uttar Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.03.2015
Certificate Number	T-3342	Valid Until	30.03.2017
Last Amended on	-	Page	3 of 4

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Structural Steel	Silicon	IS 228 (Part 8): 1989 (RA 2004)	0.05 % to 5.0 %
		Manganese	IS 228 (Part 2): 1987	0.1 % to 1.5 %
III.	WATER			
1.	Construction Water	pH Value	IS 3025 (Part 11): 1983 (RA 2002)	4 to 12
		Limits of Acidity	IS 456: 2000	0.1 ml to 10 ml
		Limits of Alkalinity	IS 456: 2000	0.1 ml to 100 ml
		Inorganic Solid	IS 3025 (Part 18): 1984 (RA 2002)	50 mg/l to 3000 mg/l
		Organic Solids	IS 3025 (Part 18): 1984 (RA 2002)	50 mg/l to 200 mg/l
		Sulphates as SO ₃	IS 3025 (Part 24): 1986 (RA 1998)	10 mg/l to 400mg/l
		Chloride as Cl	IS 3025 (Part 32): 1988 (RA 1999)	5 mg/l to 2000 mg/l
		Total Suspended solid	IS 3025 (Part 17): 1984 (RA 2002)	5 mg/l to 2000 mg/l
IV.	SOIL			
1.	Soil	Carbonates	IS 2720 (Part 23): 1976 (RA 2006)	0.01 % to 15 %
		Nitrogen	IS 10158: 1982 (RA 2003)	0.1 % to 5.0 %

Laboratory Stellar Test House, G-68, Sector 63, Noida, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 31.03.2015

Certificate Number T-3342 **Valid Until** 30.03.2017

Last Amended on - **Page** 4 of 4

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Soil	Phosphorus	IS 228 (Part 3): 1987	0.1 % to 5.0 %
		Potassium	IS 3025 (Part 45): 1993	0.01 % to 2 %
		Sodium	IS 3025 (Part 45): 1993	0.01 % to 2 %
		pH Value	IS 2720 (Part 26): 1987 (RA 2002)	4 to 12
		Water Soluble Sulphates	IS 2720 (Part 27): 1977 (RA 2001)	0.01 % to 5 %
		Water Soluble Chlorides	IS 4032: 1985 Amd. 2	0.01 % to 5 %

~~-X-X-X-X-X-X-X-X-X-X-X-X-~~