

**Laboratory**                      **Associated Testing Laboratories India Pvt. Ltd., 3/6, UPSIDC, Site-II, Ajanta Compound, Sahibabad Industrial Area, Ghaziabad, Uttar Pradesh**

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

**Discipline**                      **Chemical Testing**                      **Issue Date**    **31.10.2014**

**Certificate Number**        **T-3177**                                      **Valid Until**    **30.10.2016**

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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I.</b>	<b>WATER</b>			
<b>1.</b>	<b>Water (For Construction)</b>	Acidity	IS 3025 (Part 22): 1986 (RA 2003)	0.1 ml to 10 ml
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2003)	0.1 ml to 35 ml
		Organic Solids	IS 3025 (Part 18): 1984 (RA 2012)	50 mg/L to 300 mg/L
		Inorganic Solids	IS 3025 (Part 18): 1984 (RA 2012)	200 mg/L to 4000 mg/L
		Sulphate as SO <sub>3</sub>	IS 3025 (Part 24): 1986 (RA 2009)	50 mg/L to 500 mg/L
		Chloride as Cl	IS 3025 (Part 32): 1988 (RA 2009)	100 mg/L to 5000 mg/L
		pH	IS 3025 (Part 11): 1983 (RA 2012)	5 to 10
		Suspended Matter	IS 3025 (Part 17): 1984 (RA 2002)	10 mg/L to 2500 mg/L

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<b>II. METALS &amp; ALLOYS</b>				
<b>1.</b>	<b>Steel -Mild Steel -Low Alloy Steel</b>	Carbon	IS 228 (Part 1): 1987 (RA 2007)	0.05 % to 2.5%
		Sulphur	IS 228 (Part 9): 1989 (RA 2004)	0.01 % to 0.5%
		Phosphorus	IS 228 (Part 3): 1987 (RA 2008)	0.01 % to 0.5%
		Manganese	IS 228 (Part 2): 1987 (RA 1997)	0.05 % to 5.0 %
		Silicon	IS 228 (Part 8): 1989 (RA 2004)	0.05 % to 2.0 %
<b>III. BUILDING MATERIALS</b>				
<b>1.</b>	<b>Cement OPC PPC</b>	Silica	IS 4032 : 1985 (RA 2005)	25 % to 40 %
		Lime as CaO	IS 4032 : 1985 (RA 2005) Cl 4.7.2	40 % to 65 %
		Magnesia as MgO	IS 4032 : 1985 (RA 2005) Cl 4.8.2	2 % to 6 %
		Sulphuric Anhydride as SO <sub>3</sub>	IS 4032 : 1985 (RA 2005)	1 % to 8 %
		Alumina as Al <sub>2</sub> O <sub>3</sub> ,	IS 4032 : 1985 (RA 2005) Cl 4.6.1	2 % to 15 %
		Loss on Ignition	IS 4032 : 1985 (RA 2005)	2 % to 8 %

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	<b>Cement</b>	Insoluble Residue	IS 4032 : 1985 (RA 2005)	2 % to 35 %
	<b>OPC</b>			
	<b>PPC</b>	Ferric Oxide as Fe <sub>2</sub> O <sub>3</sub>	IS 4032 : 1985 (RA 2009) Cl 4.5.2	0.5 % to 5 %
<b>2.</b>	<b>Admixture</b>	Dry Material Content	IS 9103 : 1999 (RA 2008)	10 % to 60 %
		Ash Content	IS 9103 : 1999 (RA 2008)	0.5 % to 10 %
		Relative Density	IS 9103 : 1999 (RA 2008)	1 to 2
		pH	IS 9103 : 1999 (RA 2008)	4 to 10

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