Laboratory Secon Private Limited-Geotechnical Laboratory, #147, 7B Road,

**EPIP Zone, Whitefield, Bangalore** 

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing Issue Date 12.09.2013

Certificate Number T-1278 Valid Until 11.09.2015

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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. BU	ILDING MATERIA	LS		
1.	Soil	pH	IS 2720 (Part 26) 1987, (RA 2011)	1 to 14
		Chloride	SOP:WI/GT-L/24 A	0.01% to 10.0 %
		Total Soluble Sulphates	IS 2720 (Part 27) 1977, (RA 2010)	0.2% to 10.0 %
		Sulphide	SOP:WI/GT-L/26 A	0.5% to 5.0 %
		Potassium	SOP:WI/GT-L/27 A	0.01% to 10.0 %
		Sodium	SOP:WI/GT-L/31 A	0.01% to 10.0 %
		Nitrate	SOP:WI/GT-L/32 A	0.5% to 10.0 %
		Calcium	SOP:WI/GT-L/35 A	0.5% to 40 %
		Magnesium	SOP:WI/GT-L/36 A	0.5% to 40 %
		Total Soluble Solids	IS 2720 (Part 21) 1977, (RA 2010)	0.5% to 50 %
		Redox potential	SOP:WI/GT-L/20 A	390 mv to 512 mv
		Organic matter	IS 2720 (Part 22) 1972, (RA 2010)	1% to 40 %
		Phosphate	SOP:WI/GT-L/30 A	0.5% to 10.0 %

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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
II. W	ATER			
1.	Ground Water, Water Used for Construction Purposes	pН	IS 3025 (Part 11) 1983, (RA 2012)	1 to 14
		Chloride	IS 3025 (Part 32) 1988, (RA 2009)	2 mg/l to 1000 mg/l
		Sulphates	IS 3025 (Part 24) 1986, (RA 2009)	1 mg/l to 40 mg/l
		Sulphide	IS 3025 (Part 29) 1986, (RA 2009)	1 mg/l to 20 mg/l
		Potassium	IS 3025 (Part 45) 1993, (RA 2009)	5 mg/l to 80 mg/l
		Sodium	IS 3025 (Part 45) 1993, (RA 2009)	5 mg/l to 80 mg/l
		Nitrate	IS 3025 (Part 34) 1988, (RA 2009)	1 mg/l to 100 mg/l
		Nitrite	IS 3025 (Part 34) 1988, (RA 2009)	5 mg/l to 180 $\mu$ g/l
		Carbonate & Bicarbonate	IS 3025 (Part 51) 2001, (RA 2012)	1 mg/l to 200 mg/l
		Calcium	IS 3025 (Part 40) 1991, (RA 2009)	1 mg/l to 1000 mg/l

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Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Magnesium	APHA 3500-Mg.E, 22 <sup>nd</sup> Edition	1 mg/l to 1000 mg/l
	Total Dissolved Solids	IS 3025 (Part 16) 1984, (RA 2012)	1 mg/l to 1000 mg/l
	Redox potential	SOP:WI/GT-L/20	390 mv to 512 mv
	Turbidity	IS 3025 (Part 10) 1984, (RA 2012)	1NTU to 40 NTU
	Total Hardness	IS 3025 (Part 21) 2009	1 mg/l to 1000 mg/l
	Total Suspended Solids	IS 3025 (Part 17) 1984, (RA 2012)	1 mg/l to 10,000 mg/l
	Phosphate	APHA PO <sub>4</sub> .B, 22 <sup>nd</sup> Edition	1 mg/l to 20 mg/l
		Magnesium Total Dissolved Solids  Redox potential Turbidity  Total Hardness Total Suspended Solids	Magnesium  APHA 3500-Mg.E, 22 <sup>nd</sup> Edition  Total Dissolved Solids  IS 3025 (Part 16) 1984, (RA 2012)  Redox potential  SOP:WI/GT-L/20  Turbidity  IS 3025 (Part 10) 1984, (RA 2012)  Total Hardness  IS 3025 (Part 21) 2009  Total Suspended Solids  IS 3025 (Part 17) 1984, (RA 2012)