Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6808 Page 1 of 12

Validity 18.01.2018 to 17.01.2020 **Last Amended on 12.07.2018**

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
			performed	

CHEMICAL TESTING

I.	WATER			
1.	Drinking water,	Alkalinity	IS 3025 (Part 23)	1 mg/l to 500 mg/l
	Bore well water	In-organic solids	IS 3025 (Part 16)	2.5 mg/l to 1000 mg/l
		Chloride as Cl	IS 3025 (Part 32)	1 mg/l to 2000 mg/l
		Sulphate as SO ₄	IS 3025 (Part 24)	1 mg/l to 500 mg/l
		Suspended matter	IS 3025 (Part 17	2.5 mg/l to 100 mg/l
		Total Dissolved Solid	IS 3025 (Part 16)	5 mg/l to 5000 mg/l
		pН	IS 3025 (Part 11)	4 to 10
		Total Hardness as CaCO₃	IS 3025 (Part 21)	2 mg/l to 1000 mg/l
		Magnesium as Mg	IS 3025 (Part 46)	1 mg/l to 500 mg/l
		Electrical Conductivity	IS 3025 (Part 14)	0.1 μmS/cm to 10000 μmS/cm
		Ammoniacal Nitrogen	IS 3025 (Part 34)	1 mg/l to 50mg/l
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	5 mg/l to 500 mg/l
		Biological Oxygen Demand (BOD)	IS 3025 (Part 44)	2 mg/l to 200 mg/l
		Colour	IS 3025(Part 4)	1 Hazen Unit to 10 Hazen Units
		Fixed Residue, Organic Solids	IS 3025 (Part 18)	5 mg/l to 1000 mg/l
		Fluoride as F	APHA 4500 FD, 485	0.1 mg/l to 10 mg/l
		Free Residual Chlorine	IS 3025 (Part 26)	0.5 mg/l to 5.0 mg/l
		Nitrate as NO₃	IS 3025 (Part 34)	0.5 mg/l to 100 mg/l
		Oil & Grease	IS 3025 (Part 39)	2 mg/l to 50 mg/l
		Phosphate as P	IS 3025 (Part 31)	1 mg/l to 50 mg/l
		Silica as Si	IS 3025 (Part 35)	0.2 mg/l to 10 mg/l
		Phenol Compound	IS 3025 (Part 43)	0.05 mg/l to 5 mg/l
<u> </u>		Sodium as Na	IS 3025 (Part 45)	1 mg/l to 1000 mg/l

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6808 Page 2 of 12

Validity 18.01.2018 to 17.01.2020 Last Amended on 12.07.2018

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Odour	IS 3025 (Part 5)	Qualitative
		Turbidity	IS 3025 (Part 10)	0.1 NTU to 1000 NTU
		Calcium as Ca	IS 3025 (Part 40)	2 mg/l to 1000 mg/l
2.	Construction	pH	IS 3025 (Part 11)	4 to 10
	water	Chloride as Cl	IS 3025 (Part 32)	1 mg/l to 2000 mg/l
		Alkalinity	IS 3025 (Part 23)	0.1ml to 50 ml of 0.02 N H ₂ SO ₄
		In-organic solids	IS 3025 (Part 16)	2.5 mg/l to 1000 mg/l
		Sulphate as SO ₄	IS 3025 (Part 24)	1 mg/l to 500 mg/l
		Acidity	IS 3025 (Part 22)	0.1 mg/l to 50 ml of 0.02N NaOH
		Suspended Matter	IS 3025 (Part 17)	2.5 mg/l to 100 mg/l
II.	POLLUTION & ENV	IRONMENT		
1.	Effluent , Sewage,	pН	IS 3025 (Part 11)	2 to 12
	Waste Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	5 mg/l to 5000 mg/l
		Biological Oxygen Demand (BOD)	IS 3025 (Part 44)	5 mg/l to 2000 mg/l
		Suspended Matter	IS 3025 (Part 17)	2.0 mg/l to 500 mg/l
		Oil & Grease	IS 3025(Part 39)	5.0 mg/l to 500 mg/l
		Dissolved Oxygen	IS 3025(Part 38)	1 mg/l to 10 mg/l
		Ammoniacal Nitrogen as NH ₃ -N	IS 3025(Part 34)	0.1 mg/l to 500 mg/l
		Nitrate as NO ₃	IS 3025(Part 34)	2 mg/l to 100 mg/l
		Nitrite as NO ₂	IS 3025(Part 34)	0.01 mg/l to 100 mg/l
		Total Kjeldhal's Nitrogen	IS 3025(Part 34)	0.1 mg/l to 100 mg/l
		Phosphates as P	IS 3025(Part 31)	0.05 mg/l to 100 mg/l
		Electrical Conductivity	IS 3025(Part 14)	1 μmS/cm to 20000 μmS/cm
		Phenolic compound	IS 3025(Part 43)	0.01 mg/l to 50 mg/l
		Fluoride as F	IS 3025(Part 60)	0.2 mg/l to 20 mg/l

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6808 Page 3 of 12

Validity 18.01.2018 to 17.01.2020 Last Amended on 12.07.2018

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
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III.	ATMOSPHERIC PO	LLUTION		
1.	Stacks Emission	Sulphur Dioxide	IS 11255 (Part 2)	1.0 mg/Nm³ to1000 mg/Nm³
		Carbon Monoxide (CO)	IS 5182 (Part 10)	1 mg/Nm ³ to 500 mg/Nm ³
		Nitrogen Oxide (NOx)	IS 11255 (Part 7)	1 mg/Nm ³ to 500 mg/Nm ³
		Particulate matter (PM)	IS 11255 (Part 7)	10 mg/Nm ³ to1000 mg/Nm ³
2.	Ambient Air	PM _{2.5}	SOP CHEM-PM-2.5,	10 μg/m³ to 500 μg/m³
			SOP No. F-33E,	
			Issue Date-30.04.2016	
		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2)	5 μg/m³ to 1000 μg/m³
		Carbon Monoxide(CO)	IS 5182(Part 10)	1 μg/m³ to 2000 μg/m³
		Nitrogen Oxide (NO ₂)	IS 5182 (Part 6)	9 μg/m³ to 750 μg/m³
		Suspended Matter (SPM)	IS 5182 (Part 4)	5 μg/m³ to 10000 μg/m³
		RSPM (PM ₁₀)	IS 5182 (Part 23)	10 μg/m ³ to 2000 μg/m ³
3.	Fugitive Emission	Suspended Particular Matter (SPM)	IS 5182 (Part 4)	5 μg/m³ to 10000 μg/m³
		RSPM (PM ₁₀)	IS 5182 (Part 23)	10 μg/m³ to 1000 μg/m³
		PM 2.5	SOP CHEM-PM-2.5, SOP No. F-33E, Issue Date-30.04.2016	10 μg/m³ to 1000 μg/m³
		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2)	5 μg/m³ to 750 μg/m³
		Carbon Monoxide (CO)	IS 5182 (Part 10)	1 μg/m³ to1500 μg/m³
		Nitrogen Oxide (NO ₂)	IS 5182 (Part 6)	9 μg/m³ to 500 μg/m³
IV.	BUILDING MATERIA	ÅL		
1.	Cement-	Aluminum Oxide	IS 4032, CI 4.6	1 % to 20 %
	OPC	Calcium Oxide	IS 4032, Cl 4.7.2	25 % to 70 %
	PPC	Chloride	IS 4032	0.01 % to 2 %
		Insoluble Residue	IS 4032	0.1 % to 40 %
		Iron Oxide	IS 4032, CI 4.5.2,	0.1 % to 10 %
		Loss on Ignition	IS 4032	0.1 % to 20 %
		Potassium Oxide	IS 4032	0.1 % to 5.0 %

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6808 Page 4 of 12

Validity 18.01.2018 to 17.01.2020 Last Amended on 12.07.2018

3I.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Silica	IS 4032	10 % to 35 %
		Sodium Oxide	IS 4032	0.1 % to 5 %
		Magnesium Oxide	IS 4032, CI 4.8.1& 4.8.2,	0.5 % to 15 %
		Sulphuric Anhydride as SO ₃	IS 4032	0.5 % to 5 %
2.	Fly Ash	Alumina Oxide	IS 1727	25 % to 50 %
		Calcium Oxide	IS 1727	0.5 % to 10 %
		Chloride	IS 1727	0.01 % to 0.5 %
		Iron Oxide	IS 1727	0.1 % to 10 %
		Loss on ignition	IS 1727	0.1 % to 10 %
		Available Alkalis as Na ₂ O	IS 3812(Part 1)	0.0 %1 to 2.0 %
		Silica	IS 1727	30 % to 70 %
		Magnesium Oxide	IS 1727	0.1 % to 5 %
		Sulphuric anhydride as SO ₃	IS 1727	0.1 to 10 %
3.	Plaster of Paris,	Calcium Oxide as CaO	IS 1288, CI 10 KMnO ₄ ,	10 % to 35 %
	Gypsum	Sulphur Trioxide as SO ₃	IS 1288, Cl 12,	15 % to 50 %
		Soluble Magnesium salt as MgO	IS 2547(Part 1), Appendix-A IS 1288, Cl 11,	0.01 % to 0.5 %
		Soluble Sodium salt as Na ₂ O	IS 2547 (Part 1), Appendix-A	0.01 % to 2 %
		Loss on ignition	IS 2547 (Part 1), Appendix-B	1 % to 20 %
4.	Aggregate	Alkali Aggregate Reactivity (Chemical Method) - Reduction in alkalinity - Dissolved Silica	IS 2386 (Part 7)	10 mmol/L to 200 mmol/L 10 mmol/L to 200 mmol/L
		Organic Impurities	IS 2386 (Part 2)	Qualitative

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6808 Page 5 of 12

Validity 18.01.2018 to 17.01.2020 Last Amended on 12.07.2018

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	Admixture	Ash Content	IS 9103	1 % to 15 %
		Chloride Content	IS 9103 , IS 6925	0.01 % to 1.0 %
		Dry Material Content	IS 9103	20 % to 50 %
		pH Value	IS 9103	5 to 8
		Relative Density	IS 9103	1 to 1.5
6.	Bitumen	Solubility in Trichloroethylene	IS 1216	80 % to 100 %
		Flash Point (COC)	IS 1209	150°C to 270°C
٧.	METALS & ALLOYS	5		
1.	Low Alloy Steel	Carbon	IS 228(Part 1)	0.02 % to 2.5 %
		Manganese	IS 228(Part 2)	0.1 % to 1.5 %
		Phosphorous	IS 228(Part 3)	0.01 % to 0.5 %
		Silicon	IS 228 (Part 8)	0.05 % to 5.0 %
		Sulphur	IS 228 (Part 9)	0.01 % to 0.5 %
		Carbon Equivalent	IS 1786	By Calculation
2.	Stainless Steel	Chromium	IS 228 (Part 6)	0.15 % to 30 %
		Nickel	IS 228(Part 5)	2 % to 15 %
		Carbon	IS 228(Part 1)	0.02 % to 1.5 %
		Manganese	IS 228(Part 2)	0.1 % to 1.5 %
		Phosphorous	IS 228(Part 3)	0.01 % to 0.5 %
		Silicon	IS 228(Part 8)	0.05 % to 5.0 %
		Sulphur	IS 228(Part 9)	0.01 % to 0.5 %
		Molybdenum	IS 228(Part 7)	1.0 % to 4.0 %
3.	Metals	Mass of Zinc Coating	IS 6745	0.1 g/m ² to 500 g/m ²
VI.	SOIL & ROCK			
1.	Soil	Electrical Conductivity	IS 14767	10 mS/s to 500 mS/s
		Calcium Carbonates	IS 2720 (Part 23)	0.01 % to 6.0 %
		Silica	IS 2720 (Part 25)	40 % to 90 %
		Nitrogen	IS 14684	0.1 % to 5 %

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6808 Page 6 of 12

Validity 18.01.2018 to 17.01.2020 Last Amended on 12.07.2018

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		pН	IS 2720 (Part 26)	2 to 12
		Water soluble sulphates	IS 2720 (Part 27)	0.01 % to 5 %
		Organic matter	IS 2720 (Part 22)	0.02 % to 10 %

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6808 Page 7 of 12

Validity 18.01.2018 to 17.01.2020 **Last Amended on 12.07.2018**

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
			performed	

CHEMICAL TESTING

AT-S	SITE			
I.	ATMOSPHERIC PO	OLLUTION		
1.	Noise	Ambient Noise Equivalent Levels (Leq) for Day & Night	IS 9876, IS 9989	30 dB(A) to 130 dB(A)
		Source Noise	IS/ISO 8528 (P-10), EPA 2000	50 dB(A) to 130 dB(A)
II.	RESIDUES IN WA	ΓER		
1.	Drinking water,	Aluminum as Al	IS 3025 (Part 55)	0.02 mg/l to 5 mg/l
	Borewell water	Total Chromium as Cr	IS 3025 (Part 52)	0.05 mg/l to 5.00 mg/l
		Manganese as Mn	IS 3025 (Part 59)	0.03 mg/l to 5 mg/l
		Nickel as Ni	IS 3025 (Part 54)	0.1 mg/l to 10 mg/l
		Total Iron as Fe	IS 3025 (Part 53)	0.1 mg/l to 15 mg/l
		Copper as Cu	IS 3025 (Part 42)	0.05 mg/l to 5.0 mg/l
2.	Waste Water	Total Chromium as Cr	IS 3025 (Part 52)	0.1 mg/l to 100 mg/l
		Hexavalent Chromium as Cr ⁶⁺	IS 3025 (Part 52)	0.05 mg/l to 100 mg/l
		Copper as Cu	IS 3025 (Part 42)	0.015 mg/l to 100 mg/l
		Zinc as Zn	IS 3025 (Part 49)	0.05 mg/l to 100 mg/l
		Manganese as Mn	IS 3025 (Part 59)	0.05 mg/l to 50 mg/l
		Aluminum as Al	IS 3025 (Part 55)	0.01 mg/l to 10 mg/l

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6808 Page 8 of 12

Validity 18.01.2018 to 17.01.2020 **Last Amended on 12.07.2018**

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
			performed	

MECHANICAL TESTING

I.	BUILDING MATERIALS			
1.	Cement	Normal consistency	IS 4031 (Part 4)	20 % to 40 %
		Setting time	IS 4031 (Part 5)	
		- Initial		10 Min to 300 Min
		- Final		100 Min to 600 Min
		Soundness Le-chatelier	IS 4031 (Part 3)	0.5 mm to 10.0 mm
		Autoclave Expansion	IS 4031 (Part 3)	0.01 % to 1.5 %
		Fineness by Blain's Cell	IS 4031 (Part 2)	100 m ² /kg to 500 m ² /kg
		Compressive Strength	IS 4031 (Part 6)	10 N/mm ² to 80 N/mm ²
2.	Fly Ash	Fineness by Blain's Cell	IS 1727	100 m ² /kg to 600 m ² /kg
		Particles retain on 45µ	IS 1727	1 % to 70 %
		IS sieve (wet sieving)		
3.	Concrete	Compressive strength	IS 516	10 N/mm ² to 80 N/mm ²
		Compressive strength	IS 9013	10 N/mm ² to 80 N/mm ²
		of Accelerated Cured		
		Concrete	<u> </u>	
4.	Bricks-Clay, Fly	Water absorption	IS 3495 (Part 2)	2.0 % to 30.0 %
	ash Bricks	Compressive Strength	IS 3495 (Part 1)	2.0 N/mm ² to 20 N/mm ²
		Efflorescence	IS 3495 (Part 3)	Qualitative
		Dimension	IS 1077	
		- Length		100 mm to 5000 mm
		- Width		100 mm to 5000 mm
		- Height:		100 mm to 5000 mm
5.	Coarse	Sieve Analysis	IS 2386 (Part 1)	4.75 mm to125 mm
	Aggregate			(0 % to 100 %)
		Bulk Density	IS 2386 (Part 3)	1.5 kg/L to 2.5 kg/L
		Flakiness Index	IS 2386 (Part 1)	2 % to 40 %
		Elongation Index	IS 2386 (Part 1)	2 % to 40 %
		Impact value	IS 2386 (Part 4)	1 % to 60 %
		Crushing Value	IS 2386 (Part 4)	1 % to 60 %

Sunita Rawat Convenor

N. Venkateswaran **Program Manager**

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6808 Page 9 of 12

Validity 18.01.2018 to 17.01.2020 Last Amended on 12.07.2018

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Los Angles Abrasion Value	IS 2386 (Part 4)	1 % to 60 %
		Specific Gravity	IS 2386 (Part 3)	2.0 to 3.5
		Water Absorption	IS 2386 (Part 3)	0.1 % to 10 %
		10 % Fines Value	IS 2386 (Part 4)	1 kN to 400 kN
		Soundness	IS 2386 (Part 5)	0.1 % to 20 %
		Polish stone Value	IS 2386 (Part 4)	40 to 70
		Moisture Content	IS 2386 (Part 3)	0.01 % to 2 %
6.	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1)	150 µm to 12.5 mm (0 to 100 %)
		Material Finer than 75 μ	IS 2386 (Part 1)	0.1 % to 30 %
		Bulk Density	IS 2386 (Part 3)	1.15 kg/L to 2.5 kg/L
		Specific Gravity	IS 2386 (Part 3)	2.0 to 3.5
		Water Absorption	IS 2386 (Part 3)	0.1 % to 10 %
7.	Concrete Paver	Compressive Strength	IS 15658	5 N/mm ² to 80 N/mm ²
	Block	Water Absorption	IS 15658	0.5 % to 20 %
8.	Fresh Concrete	Slump test	IS 1199	0 mm to 200mm
		Compaction factor	IS 1199	0.68 to 0.98
9.	Tile	Mohr's Hardness	IS 13630 (Part 13)	2 to 10
		Water Absorption	IS 13630 (Part 2)	0.1 % to 10 %
10.	Bitumen	Specific Gravity	IS 1202	0.5 to 1.5
		Ductility	IS 1208	35 cm to 100 cm
		Penetration	IS 1203	10 div. to 400 div.
		Softening Point	IS 1205	40°C to 55°C
		Absolute Viscosity	IS 1206 (Part 2)	400 Poise to 5000 Poise
		Kinematic Viscosity	IS 1206 1978(Part 3)	100 cSt to 600 cSt
11.	Bitumen Emulsion	Residue on 600 Micron Sieve	IS 8887 (Annex. B)	0.01 % to 2 %
		Viscosity by Ford Cup	IS 1206 (Part 1)	10 s to 1000 s
12.	Bituminous Mix	Binder Content	ASTM D 2172-2011	1.0 % to 10 %
		Marshal Stability	ASTM D 6927-2006	0.1 kN to 25 kN
		Flow Test	ASTM D 6927-2006	1 mm to 10mm
		Stripping Value	IS 6241	Qualitative (Upto 100)

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6808 Page 10 of 12

Validity 18.01.2018 to 17.01.2020 Last Amended on 12.07.2018

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II.	WOOD AND WOOD	PRODUCTS		
1.	Wood	Moisture content	IS 1708	1 % to 30 %
		Density	IS 1708	200 kg/m ³ to 1500 kg/m ³
2.	AAC Blocks	Compressive Strength	IS 6441 (Part 5)	2 N/mm ² to 15 N/mm ²
		Moisture Content	IS 6441 (Part 1)	0.05 % to 3 %
		Bulk Density	IS 6441 (Part 1)	500 kg/m ³ to 1500 kg/m ³
III.	MECHANICAL PRO	PERTIES OF METALS		
1.	Steel bar for	Ultimate Tensile Strength	IS 1608, IS 1786	100 N/mm ² to 800 N/mm ²
	concrete	Yield Stress	IS 1608, IS 1786	100 N/mm ² to 800 N/mm ²
	Reinforcement	Elongation	IS 1608, IS 1786	10.0 % to 40 %
		Bend	IS 1599, IS 1786	Qualitative: [Mandrel Diameter: 16mm, 20 mm, 24 mm, 32 mm, 36 mm,40 mm,48 mm, 50 mm,60mm, 64 mm, 72 mm, 75 mm, 80 mm, 84 mm, 96 mm, 100 mm, 112 mm,116 mm,120 mm,125 mm,136 mm,140 mm,150 mm,175 mm, 200 mm, 224 mm and 256mm]
		Re-bend	IS 1786	Qualitative: [Mandrel Diameter: 16mm, 20 mm, 24 mm, 32 mm, 36 mm,40 mm,48 mm, 50 mm,60mm, 64 mm, 72 mm, 75 mm, 80 mm, 84 mm, 96 mm, 100 mm, 112 mm,116 mm,120 mm,125 mm,136 mm,140 mm,150 mm,175 mm, 200 mm, 224 mm and 256mm]

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6808 Page 11 of 12

Validity 18.01.2018 to 17.01.2020 Last Amended on 12.07.2018

l.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Mass per Meter	IS 1786	0.01 kg/m to 9.50 kg/m
IV.	SOIL & ROCK			
1.	SOIL	Grain size Analysis (Wet sieving, 75µ to 40mm sieve size)	IS 2720 (Part 4))	0 to 100 %
		Liquid Limit	IS 2720 (Part 5)	15 % to 50 %
		Plastic Limit	IS 2720 (Part 5)	5 % to 50 %
		Free Swell Index	IS 2720 (Part 40)	0 to 100 %
		Light Compaction MDD: OMC:	IS 2720 (Part 7)	1.4 g/cc to 2.6 g/cc 5 % to 30 %
		Heavy Compaction MDD: OMC:	IS 2720 (Part 8)	1.4 g/cc to 2.6 g/cc 5 % to 30 %
		California Bearing Ratio	IS 2720 (Part16)	1 % to 60 %
		Tri axial Test with Pore Pressure measurement	IS 2720 (Part 12)	
		С= Ф=		0 to 2.0 kg/cm ² 5 to 40°
		Compaction by core cutter Method FDD:	IS 2720 (Part 29)	1.4 g/cc to 2.6 g/cc
		Compaction by sand replacement method	IS 2720 (Part 28)	1.4 g/cc to 2.6 g/cc
			IS 2720 (Part 28)	

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6808 Page 12 of 12

Validity 18.01.2018 to 17.01.2020 Last Amended on 12.07.2018

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
			performed	

NON-DESTRUCTIVE TESTING

I.	BUILDING MAT	ERIALS-REINFORCED CON	CRETE STRUCTURES	
1.	Structural	Rebound Hammer	IS 13311 (Part 2)	10 N/mm ² to 80 N/mm ²
	Concrete	Ultrasonic Pulse Velocity Test	IS 13311 (Part 1)	0.1 km/s to 6.0 km/s
		Concrete Cover Test	BS 1881 (Part 204)	10 mm to 60 mm
		Corrosion Potential of uncoated reinforcing steel	ASTM-C-876	±1 mV to ± 999 mV