National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HITECH CONCRETE SOLUTIONS CHENNAI PRIVATE LIMITED, NO.64, GALAXY ROAD, PONNIYAMMAN NAGAR, AYANAMBAKKAM, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Chloride	IS 14959 PART 2
2	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103
3	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride	IS 6925
4	CHEMICAL- BUILDING MATERIAL	Admixture	Density	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content (DMC)	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103
7	CHEMICAL- BUILDING MATERIAL	Cement(OPC 33, OPC 43, OPC 53, SRC)	Calcium Oxide	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement(OPC 33, OPC 43, OPC 53, SRC)	Combined Oxides - Al2O3	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement(OPC 33, OPC 43, OPC 53, SRC)	Combined Oxides - Fe2O3	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement(OPC 33, OPC 43, OPC 53, SRC)	Insoluble Residue	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement(OPC 33, OPC 43, OPC 53, SRC)	Loss on Ignition	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement(OPC 33, OPC 43, OPC 53, SRC)	Magnesia (MgO)	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement(OPC 33, OPC 43, OPC 53, SRC)	Silica	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement(OPC 33, OPC 43, OPC 53, SRC)	Sulphuric Anhydride	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Chloride	IS 14959 : Part 2
16	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Sulphate	IS 2317
17	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Sulphates	IS 2317
18	CHEMICAL- BUILDING MATERIAL	Fly Ash	Alumina	IS 1727

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
19	CHEMICAL- BUILDING MATERIAL	Fly Ash	Calcium Oxide	IS 1727
20	CHEMICAL- BUILDING MATERIAL	Fly ash	Chloride	IS 4032
21	CHEMICAL- BUILDING MATERIAL	Fly ash	Ferric Oxide	IS 1727
22	CHEMICAL- BUILDING MATERIAL	Fly ash	Loss on ignition	IS 1727
23	CHEMICAL- BUILDING MATERIAL	Fly ash	Magnesia	IS:1727
24	CHEMICAL- BUILDING MATERIAL	Fly ash	Silicon	IS 1727
25	CHEMICAL- BUILDING MATERIAL	Fly ash	Sulphur Anhydrate	IS:1727
26	CHEMICAL- BUILDING MATERIAL	Ground Granulated Blast Furnace Slag	Alumina	IS 4032
27	CHEMICAL- BUILDING MATERIAL	Ground Granulated Blast Furnace Slag	Calcium Oxide	IS 4032
28	CHEMICAL- BUILDING MATERIAL	Ground Granulated Blast Furnace Slag	Ferric oxide	IS 4032
29	CHEMICAL- BUILDING MATERIAL	Ground Granulated Blast Furnace Slag	Insoluble Residue	IS 4032
30	CHEMICAL- BUILDING MATERIAL	Ground Granulated Blast Furnace Slag	Loss on Ignition	IS 4032
31	CHEMICAL- BUILDING MATERIAL	Ground Granulated Blast Furnace Slag	Magnesium	IS 4032
32	CHEMICAL- BUILDING MATERIAL	Ground Granulated Blast Furnace Slag	Silica	IS 4032
33	CHEMICAL- BUILDING MATERIAL	Ground Granulated Blast Furnace Slag	Sulphur Anhydrate	IS 4032
34	CHEMICAL- BUILDING MATERIAL	Harden Concrete and Mortar	Sulphate (S03)	IS 2317
35	CHEMICAL- BUILDING MATERIAL	Hardened Concrete and Mortar	Chloride	IS 14959 (Part 2)
36	CHEMICAL- METALS & ALLOYS	Steel Reinforcement	Carbon	IS 8811
37	CHEMICAL- METALS & ALLOYS	Steel Reinforcement	Phosphorus	IS 8811

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
38	CHEMICAL- METALS & ALLOYS	Steel Reinforcement	Sulphur	IS 8811
39	CHEMICAL- WATER	Water for construction purpose	Acidity	IS 3025 - Part 22
40	CHEMICAL- WATER	Water for construction purpose	Alkalinity	IS 3025 - Part 23
41	CHEMICAL- WATER	Water for construction purpose	Chloride	IS 3025 : Part 32
42	CHEMICAL- WATER	Water for construction purpose	Inorganic solid	IS 3025 : Part 18
43	CHEMICAL- WATER	Water for construction purpose	Organic solid	IS 3025 : Part 18
44	CHEMICAL- WATER	Water for construction purpose	pH	IS 3025 : Part 11
45	CHEMICAL- WATER	Water for construction purpose	Sulphates	IS 3025 : Part 24
46	CHEMICAL- WATER	Water for construction purpose	Total Suspended Solid (TSS)	IS 3025 : Part 17
47	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks / Flyash Bricks / Flyash Lime Bricks	Compressive Strength	IS:3495 (Part 1)
48	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks / Flyash Bricks / Flyash Lime Bricks	Dimension (Height)	IS : 1077
49	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks / Flyash Bricks / Flyash Lime Bricks	Dimension (Length)	IS : 1077
50	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks / Flyash Bricks / Flyash Lime Bricks	Dimension (Width)	IS : 1077
51	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks / Flyash Bricks / Flyash Lime Bricks	Efflorescence	IS:3495 (Part 3)-
52	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks / Flyash Bricks / Flyash Lime Bricks	Water Absorption	IS:3495 (Part 2)
53	MECHANICAL- BUILDINGS MATERIALS	Cement - OPC/PPC/Salg	Normal Consistency	IS:4031 : Part 4
54	MECHANICAL- BUILDINGS MATERIALS	Cement - OPC/PPC/Slag	Compressive Strength	IS:4031 : Part 6
55	MECHANICAL- BUILDINGS MATERIALS	Cement - OPC/PPC/Slag	Density	IS:4031 : Part 11
56	MECHANICAL- BUILDINGS MATERIALS	Cement - OPC/PPC/Slag	Fineness by Blain’s air permeability	IS:4031 : Part 2
57	MECHANICAL- BUILDINGS MATERIALS	Cement - OPC/PPC/Slag	Initial Setting Time	IS:4031 : Part 5
58	MECHANICAL- BUILDINGS MATERIALS	Cement - OPC/PPC/Slag	Soundness By LeChattelier Method	IS:4031 : Part 3
59	MECHANICAL- BUILDINGS MATERIALS	Cement -OPC/PPC/Slag	Final Setting Time	IS:4031 : Part 5

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS:2386 : Part 3 : Clause 3.0
61	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS:2386 : Part 4 : Clause 2.0
62	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS:2386 : Part 1 : Clause 5
63	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS:2386 : Part 1 : Clause 4.0
64	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS:2386 : Part 4 : Clause 4.0
65	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS:2386:Part 1:Clause 2.0 (Sieve size 40 to 4.75 mm)
66	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Sodium Sulphate	IS : 2386 : Part 5
67	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS:2386 : Part 3 : Clause 2
68	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Ten Percent Fines Value	IS 2386 : Part 4 : Clause 3.0
69	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS:2386 : Part 3 : Clause 2.0
70	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Compressive Strength	IS : 15658
71	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Dimension (Height)	IS : 15658
72	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Dimension (Length)	IS : 15658
73	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Dimension (Width)	IS : 15658
74	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Water Absorption	IS :15658
75	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS:2386 : Part 3 : Clause 3.0
76	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking of Fine Aggregate	IS : 2386: Part 3
77	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Materials Finer than 75µ IS Sieve	IS:2386: Part 1
78	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS:2386:Part 1 (Sieve size: 10mm to 150µ)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
79	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Sodium Sulphate	IS : 2386 : Part 5
80	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS:2386 : Part 3
81	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS:2386 : Part 3
82	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Compressive Strength	IS:1727
83	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Consistency	IS:1727
84	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Final Setting Time	IS:1727
85	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Initial Setting Time	IS:1727
86	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Passing by 45micrion sieve	IS:1727
87	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Soundness - By Le Chattelier Method	IS:1727
88	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific Gravity	IS:1727
89	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific Surface by Blain’s air permeability	IS:1727
90	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Accelerated Compressive Strength by Boiling Water Method	IS:9013
91	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Compressive Strength	IS:516:Part 1:Sec 1
92	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Concrete Cores	IS 516 : Part 4
93	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Flexural Strength	IS:516: Part 1: Sec-1
94	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Rapid Chloride ion penetration Test	ASTM C1202
95	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Water Permeability Test	IS 516 : Part 2 : Sec 1
96	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Compressive Strength	IS:2185 : Part 1

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
97	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Dimension (Height)	IS:2185 : Part 1
98	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Dimension (Length)	IS:2185 : Part 1
99	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Dimension (Width)	IS:2185 : Part 1
100	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Water Absorption	IS:2185 : Part 1
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Reinforcement	% of elongation	IS: 1608 – Part1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Reinforcement	0.2% proof stress	IS : 1608 – Part1
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Reinforcement	Bend Test	IS : 1599 -
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Reinforcement	Mass per meter	IS : 1786
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Reinforcement	Re-Bend Test	IS : 1786
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Reinforcement	Ultimate Tensile Strength	IS 1608 – Part1
107	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	PIT Test	PIT Test	ASTM D5882
108	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Carbonation Test	IS 516 : Part 5 : Sec 3 :
109	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Cover Meter Test	BS 1881 - Part 204
110	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Ultrasonic Pulse Velocity Test	IS 516 : Part 5 : Sec 1 :

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111	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Half Cell Potential Test	IS 516 : Part 5 : Sec 2 :
112	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced concrete structures	Rebound Hammer	IS 516 : Part 5 : Sec 4 :

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Site Facility				
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	PIT Test	PIT Test	ASTM D5882
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Carbonation Test	IS 516 : Part 5 : Sec 3 :
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Cover Meter Test	BS 1881 - Part 204
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Ultrasonic Pulse Velocity Test	IS 516 : Part 5 : Sec 1 :
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Half Cell Potential Test	IS 516 : Part 5 : Sec 2 :
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced concrete structures	Rebound Hammer	IS 516 : Part 5 : Sec 4 :