



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**HITECH CONCRETE SOLUTIONS CHENNAI PRIVATE
LIMITED**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

NO.64, GALAXY ROAD, PONNIYAMMAN NAGAR, AYANAMBAKKAM, THIRUVALLUR, CHENNAI,
TAMIL NADU, INDIA

in the field of

TESTING

Certificate Number: TC-5814

Issue Date: 31/05/2024

Valid Until:

30/05/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued
satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: Hitech Concrete Solutions Chennai Private Limited

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

HITECH CONCRETE SOLUTIONS CHENNAI PRIVATE LIMITED, NO.64, GALAXY ROAD,
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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5814

Page No

1 of 8

Validity

31/05/2024 to 30/05/2026

Last Amended on

-

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 Testing				
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 - Al ₂ O ₃	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement(OPC 33, OPC 43, OPC 53, SRC)	Combined Oxides - Fe ₂ O ₃	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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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5814

Page No

2 of 8

Validity

31/05/2024 to 30/05/2026

Last Amended on

-

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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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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5814

Page No

3 of 8

Validity

31/05/2024 to 30/05/2026

Last Amended on

-

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 - Quantity of 0.02 NaOH required to neutralize 100 ml of water sample	IS 3025 - Part 22
40	CHEMICAL- WATER	Water for construction purpose	Alkalinity - Quantity of 0.02 H2SO4 required to neutralize 100ml of water sample	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 : Sec 1
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



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5814

Page No

4 of 8

Validity

31/05/2024 to 30/05/2026

Last Amended on

-

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
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
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density Loose	IS:2386 : Part 3 : Clause 3.0
61	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density Rodded	IS 2386 Part 3 Clause 3.0
62	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS:2386 : Part 4 : Clause 2.0
63	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS:2386 : Part 1 : Clause 5
64	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS:2386 : Part 1 : Clause 4.0
65	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS:2386 : Part 4 : Clause 4.0
66	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve size 40 to 4.75 mm)	IS:2386:Part 1:Clause 2.0
67	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Sodium Sulphate	IS : 2386 : Part 5
68	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS:2386 : Part 3 : Clause 2
69	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Ten Percent Fines Value	IS 2386 : Part 4 : Clause 3.0
70	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS:2386 : Part 3 : Clause 2.0
71	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Compressive Strength	IS : 15658
72	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Dimension (Height)	IS : 15658
73	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Dimension (Length)	IS : 15658
74	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Dimension (Width)	IS : 15658
75	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Water Absorption	IS :15658
76	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate ' : 1.2to 2.5 kg/L	Bulk Density (Roded)	IS 2386 Part 3 Clause 3.0



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PONNIYAMMAN NAGAR, AYANAMBAKKAM, THIRUVALLUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5814

Page No

5 of 8

Validity

31/05/2024 to 30/05/2026

Last Amended on

-

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
77	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Loose)	IS:2386 : Part 3 : Clause 3.0
78	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Materials Finer than 75µ IS Sieve	IS:2386: Part 1
79	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Sieve size: 10mm to 150µ)	IS:2386:Part 1
80	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Sodium Sulphate	IS : 2386 : Part 5
81	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS:2386 : Part 3
82	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS:2386 : Part 3
83	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Compressive Strength	IS:1727
84	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Consistency	IS:1727
85	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Final Setting Time	IS:1727
86	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Initial Setting Time	IS:1727
87	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Passing by 45micron sieve	IS:1727
88	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Soundness - By Le Chatelier Method	IS:1727
89	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific Gravity	IS:1727
90	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific Surface by Blain's air permeability	IS:1727
91	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Accelerated Compressive Strength by Boiling Water Method	IS:9013
92	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Compressive Strength	IS:516:Part 1:Sec 1
93	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Concrete Cores	IS 516 : Part 4
94	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Flexural Strength	IS:516: Part 1: Sec-1



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5814

Page No

6 of 8

Validity

31/05/2024 to 30/05/2026

Last Amended on

-

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95	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Rapid Chloride ion penetration Test	ASTM C1202
96	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Water Permeability Test	IS 516 : Part 2 : Sec 1
97	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Compressive Strength	IS:2185 : Part 1
98	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Dimension (Height)	IS:2185 : Part 1
99	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Dimension (Length)	IS:2185 : Part 1
100	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Dimension (Width)	IS:2185 : Part 1
101	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Water Absorption	IS:2185 : Part 1
102	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Reinforcement	% of elongation	IS: 1608 – Part1
103	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Reinforcement	0.2% proof stress	IS : 1608 – Part1
104	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Reinforcement	Bend Test	IS : 1599
105	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Reinforcement	Mass per meter	IS : 1786
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Reinforcement	Re-Bend Test	IS : 1786
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Reinforcement	Ultimate Tensile Strength	IS 1608 – Part1
108	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	PIT Test	PIT Test	ASTM D5882
109	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Carbonation Test	IS 516 : Part 5 : Sec 3 :



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5814

Page No

7 of 8

Validity

31/05/2024 to 30/05/2026

Last Amended on

-

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110	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Cover Meter Test	BS 1881 - Part 204
111	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Ultrasonic Pulse Velocity Test	IS 516 : Part 5 : Sec 1 :
112	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Half Cell Potential Test	IS 516 : Part 5 : Sec 2 :
113	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced concrete structures	Rebound Hammer	IS 516 : Part 5 : Sec 4 :



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-5814

Page No

8 of 8

Validity

31/05/2024 to 30/05/2026

Last Amended on

-

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Site Testing				
1	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking of Fine Aggregate	IS : 2386: Part 3
2	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	PIT Test	PIT Test	ASTM D5882
3	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Carbonation Test	IS 516 : Part 5 : Sec 3 :
4	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Cover Meter Test	BS 1881 - Part 204
5	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Ultrasonic Pulse Velocity Test	IS 516 : Part 5 : Sec 1 :
6	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Half Cell Potential Test	IS 516 : Part 5 : Sec 2 :
7	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced concrete structures	Rebound Hammer	IS 516 : Part 5 : Sec 4 :