National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CHENNAI CIVIL TECH RESEARCH FOUNDATION PVT. LTD., 264 NEHRU NAGAR, 2ND MAIN ROAD, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 08/05/2022 to 07/05/2024 **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 Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Accelerated Cured Concrete	Compressive Strength	IS 9013
2	MECHANICAL- BUILDINGS MATERIALS	Bituminous Concrete / Dense Bituminous Macadam	Binder content	ASTM D 2172
3	MECHANICAL- BUILDINGS MATERIALS	Bituminous concrete / Dense Bituminous Macadam	Density	ASTM D2726
4	MECHANICAL- BUILDINGS MATERIALS	Bituminous Concrete / Dense Bituminous Macadam	Gradation	IS 2386 (Part 1)
5	MECHANICAL- BUILDINGS MATERIALS	Bituminous Concrete / Dense Bituminous Macadam	Marshall flow	ASTM D 6927
6	MECHANICAL- BUILDINGS MATERIALS	Bituminous Concrete / Dense Bituminous Macadam	Marshall stability	ASTM D 6927
7	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension - Breadth	IS 1077
8	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension - Height	IS 1077
9	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension - Length	IS 1077
10	MECHANICAL- BUILDINGS MATERIALS	Bricks and Flyash Bricks	Compressive Strength	IS 3495 (Part1)
11	MECHANICAL- BUILDINGS MATERIALS	Bricks and Flyash Bricks	Efflorescence	IS 3495(Part3)
12	MECHANICAL- BUILDINGS MATERIALS	Bricks and Flyash Bricks	Water Absorption	IS 3495 (Part 2)
13	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part 6)
14	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness by dry sieve method (90 micron)	IS 4031 (Part 1)
15	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness by Le-Chatlier method	IS 4031 (Part 3)
16	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Specific gravity	IS 4031 (Part-1)
17	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC)	Consistency	IS 4031 (Part 4)
18	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC)	Final Setting	IS 4031 (Part 5)

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19	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC)	Initial Setting	IS 4031 (Part 5)
20	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimension - Length	IS 13630(Part1)
21	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimension - Width	IS 13630 (Part 1)
22	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Modulus of Rupture	IS 13630 (Part6)
23	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Rectangularity	IS 13630(Part 1)
24	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Scratch Hardness	IS 13630 (Part13)
25	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Straightness of sides	IS 13630 (Part1)
26	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Surface Flatness	IS 13630 (Part1)
27	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Thickness	IS 13630 (Part1)
28	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Water absorption	IS 13630 (Part2)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk density (Rodded)	IS 2386 (Part 3)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk density(Loose)	IS 2386 (Part 3)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Test	IS 2386 (Part 4)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis(0.45mm to 80mm)	IS 2386 (Part 1)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Stripping Value	IS 6241
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregtae	Flakiness Index	IS 2386 (Part 4)

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38	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Bulk density (Loose)	IS 2386 (Part 3)
39	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Bulk density (Rodded)	IS 2386 (Part 3)
40	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Bulkage	IS 2386 (Part 3)
41	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Moisture Content	IS 2386 (Part 3)
42	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Sieve Analysis (75 microns to 6.3 mm)	IS 2386 (Part 1)
43	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Specific Gravity	IS 2386 (Part 3)
44	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Water Absorption	IS 2386 (Part 3)
45	MECHANICAL- BUILDINGS MATERIALS	Flyash Bricks	Dimension - Breadth	IS 12894
46	MECHANICAL- BUILDINGS MATERIALS	Flyash Bricks	Dimension - Height	IS 12894
47	MECHANICAL- BUILDINGS MATERIALS	Flyash Bricks	Dimension - Length	IS 12894
48	MECHANICAL- BUILDINGS MATERIALS	Granite and Marble	Dry Density	IS 13030
49	MECHANICAL- BUILDINGS MATERIALS	Granite and Marble	Moisture Content	IS 13030
50	MECHANICAL- BUILDINGS MATERIALS	Granite and Marble	Specific Gravity	IS 1124
51	MECHANICAL- BUILDINGS MATERIALS	Granite and Marble	Water Absorption	IS 1124
52	MECHANICAL- BUILDINGS MATERIALS	Granular Sub-base (GSB)	Elongation Index	IS 2386 (Part 1)
53	MECHANICAL- BUILDINGS MATERIALS	Granular Sub-base (GSB)	Flakiness Index	IS 2386 (Part 1)
54	MECHANICAL- BUILDINGS MATERIALS	Granular Sub-base (GSB)	Gradation test	IS 2386 (Part 1)
55	MECHANICAL- BUILDINGS MATERIALS	Granular Sub-base (GSB)	Impact Test	IS 2386 (Part 4)
56	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516

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57	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Block	Block Density	IS 2185 (Part 1)
58	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Block	Compressive Strength	IS 2185 (Part 1)
59	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Block	Water Absorption	IS 2185 (Part 1)
60	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
61	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
62	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam (WMM)	Elongation Index	IS 2386 (Part 1)
63	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam (WMM)	Flakiness Index	IS 2386 (Part 1)
64	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam (WMM)	Gradation test	IS 2386 (Part 1)
65	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam (WMM)	Impact Test	IS 2386 (Part 4)
66	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Bend Test	IS 1599
67	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Elongation	IS 1608 (Part 1)
68	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Mass Per Meter	IS 1786
69	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars	Rebend Test	IS 1786
70	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Tensile Strength	IS 1608 (Part 1)
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Yield Strength	IS 1608 (Part 1)
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Spliced Joints	Tensile Strength	IS 16172

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73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Elongation	IS 1608 (Part 1)
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Tensile Strength	IS 1608 (Part 1)
75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural steel	Yield strength	IS 1608 (Part 1)
76	MECHANICAL- SOIL AND ROCK	Granular Sub Base (GSB)	California Bearing Ratio (CBR) Test	IS 2720 (Part 16)
77	MECHANICAL- SOIL AND ROCK	Granular Sub-base (GSB)	Heavy Compaction (MDD)	IS 2720 (Part 8)
78	MECHANICAL- SOIL AND ROCK	Granular Sub-base (GSB)	Heavy Compaction (OMC)	IS 2720 (Part 8)
79	MECHANICAL- SOIL AND ROCK	Granular Sub-base (GSB)	Liquid Limit	IS 2720 (Part 5)
80	MECHANICAL- SOIL AND ROCK	Granular Sub-base (GSB)	Natural Moisture Content	IS 2720 (Part 2)
81	MECHANICAL- SOIL AND ROCK	Granular Sub-base (GSB)	Plastic limit	IS 2720 (Part 5)
82	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143
83	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR) Test	IS 2720 (Part 16)
84	MECHANICAL- SOIL AND ROCK	Soil	Free swell Index	IS 2720 (Part 40)
85	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction(MDD)	IS 2720 (Part 7)
86	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction(OMC)	IS 2720 (Part 7)
87	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
88	MECHANICAL- SOIL AND ROCK	Soil	Natural Moisture Content	IS 2720 (Part 2)
89	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
90	MECHANICAL- SOIL AND ROCK	Soil	Sieve Analysis (75 micron – 4.75 mm)	IS 2720 (Part 4)

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91	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	California Bearing Ratio (CBR) Test	IS 2720 (Part 16)
92	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	Heavy Compaction (MDD)	IS 2720 (Part 8)
93	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	Heavy Compaction (OMC)	IS 2720 (Part 8)
94	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	Liquid Limit	IS 2720 (Part 5)
95	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	Natural moisture content	IS 2720 (Part 2)
96	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	Plastic limit	IS 2720 (Part 5)

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Site Facility				
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RCC Structures	Carbonation	BS 1881 (Part201)
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RCC Structures	Cover Test	BS 1881(Part204)
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RCC Structures	Half cell potential difference	ASTM C-876
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RCC Structures	Rebound Hammer	IS 13311(Part2)
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RCC Structures	Ultrasonic Pulse Velocity	IS 516 : Part 5: sec 1