National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : FALCON INDUSTRIAL TESTING LABORATORY PRIVATE LTD., PLOT NO 181, ESTATE 2ND MAIN ROAD, BURMA COLONY, OMR ROAD, PERUNGUDI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6832 **Page No** 1 of 6

Validity 08/12/2022 to 07/12/2024 **Last Amended on** 28/02/2023

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	AAC Blocks	Dimension-Height	IS 2185 (Part 2)
2	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimension-Length	IS 2185 (Part 2)
3	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimension-Width	IS 2185 (Part 2)
4	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Aerated Concrete Blocks (AAC Blocks)	Block Density	IS 2185 (Part 2)
5	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Aerated Concrete Blocks (AAC Blocks)	Compressive Strength	IS 2185 (Part 2)
6	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Aerated Concrete Blocks(AAC Blocks)	Water Absorption	IS 2185 (Part 2)
7	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 (Part 1)
8	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension-Height (Per 20 Bricks)	IS 1077
9	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension-Length(Per 20 Bricks)	IS 1077
10	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension-Width(Per 20 Bricks)	IS 1077
11	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 2)
12	MECHANICAL- BUILDINGS MATERIALS	Bricks & pre-casted blocks	Efflorescence	IS 3945 (PART 3)
13	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6)
14	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5)
15	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Dry Sieving	IS 4031(Part 1)
16	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031(Part 5)
17	MECHANICAL- BUILDINGS MATERIALS	Cement	Normal Consistency	IS 4031(Part 5)
18	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le Chatlier method	IS 4031 (Part 3)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6832 **Page No** 2 of 6

Validity 08/12/2022 to 07/12/2024 **Last Amended on** 28/02/2023

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	MECHANICAL- BUILDINGS MATERIALS	Cement	Specific gravity by Le Chatlier flask	IS 4031 (Part 11)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Loose/Rodded)	IS 2386 (Part 3)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (4.75 to 80 mm)	IS:2386 (Part I)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Water absorption	IS 2386 (Part 3)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregates	10% fine's value	IS 2386 (Part 4)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregates	Clay lumps	IS 2386 (Part 2)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregates	Particle finer than 75 micron	IS 2386(Part 1)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregates	Soundness test - Sodium Sulphate (Na2SO4)	IS 2386 (Part 5)
32	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks (Hollow & Solid)	Block Density	IS 2185 (Part 1)
33	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks (Hollow & Solid)	Compressive Strength	IS 2185 (Part 1)
34	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks (Hollow & Solid)	Water Absorption	IS 2185 (Part 1)
35	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Loose/Rodded)	IS 2386 (Part 3)
36	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (0.075 to 4.75 mm)	IS 2386 (Part 1)
37	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6832	**Page No**	3 of 6
Validity	08/12/2022 to 07/12/2024	**Last Amended on**	28/02/2023

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38	MECHANICAL- BUILDINGS MATERIALS	Fine aggregates	Bulking Percentage	IS 2386 (Part 3)
39	MECHANICAL- BUILDINGS MATERIALS	Fine aggregates	Clay lumps	IS 2386(Part 2)
40	MECHANICAL- BUILDINGS MATERIALS	Fine aggregates	Silt content	IS 2386(Part 2)
41	MECHANICAL- BUILDINGS MATERIALS	Fine aggregates	Water absorption	IS 2386 (Part 3)
42	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump	IS 1199 (Part 2)
43	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Cube Compressive Strength	IS 516
44	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete(Cube & Concrete core)	Compressive Strength by accelerated curing method	IS 9013
45	MECHANICAL- BUILDINGS MATERIALS	Paver blocks	Compressive Strength	IS 15658
46	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimension-Height	IS 15658
47	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimension-Length	IS 15658
48	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimension-Width	IS 15658
49	MECHANICAL- BUILDINGS MATERIALS	Paver blocks	Water absorption	IS 15658
50	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar)	% of Elongation	IS 1608 (Part 1)
51	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar)	0.2 % Proof stress	IS 1786
52	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar)	Bend (Mandrel Diameter-40mm,50mm,80mm)	IS 1786
53	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar)	Mass Per Meter	IS 1786
54	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar)	Rebend (Mandrel Diameter-40mm,50mm,80mm)	IS 1786
55	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar)	Ultimate Tensile Strength	IS 1608 (Part 1)
56	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar)	Yield Stress	IS 1608 (Part 1)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6832 **Page No** 4 of 6

Validity 08/12/2022 to 07/12/2024 **Last Amended on** 28/02/2023

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
57	MECHANICAL- BUILDINGS MATERIALS	Solid Blocks	Dimension -Length	IS 2185 (Part 1)
58	MECHANICAL- BUILDINGS MATERIALS	Solid Blocks	Dimension-Height	IS 2185 (Part 1)
59	MECHANICAL- BUILDINGS MATERIALS	Solid Blocks	Dimension-Width	IS 2185 (Part 1)
60	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
61	MECHANICAL- SOIL AND ROCK	Soil	Coefficient of Consolidation (CV)	IS 2720 (Part 15)
62	MECHANICAL- SOIL AND ROCK	Soil	Compression Index (CC)	IS 2720 (Part 15)
63	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Core Cutter Method	IS 2720 (Part 29)
64	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
65	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (0.075 to 4.75 mm)	IS 2720 (Part 4)
66	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8)
67	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part 8)
68	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Maximum Dry Density	IS 2720 (Part 7)
69	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Optimum Moisture Content	IS 2720 (Part 7)
70	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
71	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
72	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/Sec1)
73	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 (Part 2)
74	MECHANICAL- SOIL AND ROCK	Soils	Direct Shear Test	IS 2720 (Part 13)
75	MECHANICAL- SOIL AND ROCK	Soils	Hydrometer analysis of Soil	IS 2720 (Part 4)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6832	**Page No**	5 of 6
Validity	08/12/2022 to 07/12/2024	**Last Amended on**	28/02/2023

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76	MECHANICAL- SOIL AND ROCK	Soils	Shrinkage limit	IS 2720 (Part 6)
77	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Carbonation test	IS 516 (Part 5/Sec 3)
78	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Half Cell Potential difference test	IS 516 (Part 5/Sec 2)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6832 **Page No** 6 of 6

Validity 08/12/2022 to 07/12/2024 **Last Amended on** 28/02/2023

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Core Cutter Method	IS 2720 (Part 29)
2	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Sand Replacement Method	IS 2720 (Part 28)
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Rebound Hammer	IS 516 Part 5 (Sec 4)
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened Concrete	Ultrasonic Pulse Velocity	IS 516 Part 5 (Sec 1)