National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	STRONG TECH ENGINEERING SERVICES AND RESEARCH (I) PVT. LTD., PLOT NO. 30/31A, 6/1/3, KHANDOBA MAL, HILL VIEW RESIDENCY, LOHEGAON, PUNE, MAHARASHTRA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5114
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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	Admixture	Ash Content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride	IS 9103
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 3025 Part 11
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Cement OPC	Alumina (Al2O3)	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement OPC	Calcium Oxide (CaO)	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement OPC	Ferric Oxide (Fe2O3)	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement OPC	Insoluble Residue	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement OPC	Loss on Ignition	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement OPC	Magnesia (MgO)	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement OPC	Silica (SiO2)	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement OPC	Sulphur as SO3	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement PPC	Calcium Oxide (CaO)	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Cement PPC	Insoluble Residue	IS 4032
16	CHEMICAL- BUILDING MATERIAL	Cement PPC	Loss on Ignition	IS 4032
17	CHEMICAL- BUILDING MATERIAL	Cement PPC	Magnesia (MgO)	IS 4032
18	CHEMICAL- BUILDING MATERIAL	Cement PPC	Silica (SiO2)	IS 4032

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19	CHEMICAL- BUILDING MATERIAL	Cement PPC	Sulphur as SO3	IS 4032
20	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate & Fine Aggregate	Organic Impurity	IS 2386 (Part 2)
21	CHEMICAL- BUILDING MATERIAL	Tiles	Acids	IS 13630 (Part 8)
22	CHEMICAL- BUILDING MATERIAL	Tiles	Alkali	IS 13630 (Part 8)
23	CHEMICAL- BUILDING MATERIAL	Tiles	House hold chemicals	IS 13630 (Part 8)
24	CHEMICAL- BUILDING MATERIAL	Tiles	Stains	IS 13630 (Part 8)
25	CHEMICAL- METALS & ALLOYS	Ferrous Material	% Carbon (Determination of carbon by volumetric method)	IS 228 (Part 1)
26	CHEMICAL- METALS & ALLOYS	Ferrous Material	% Phosphorus (Detrmination of Phosphorus by Volumetric Method)	IS 228 (Part 3)
27	CHEMICAL- METALS & ALLOYS	Ferrous Material	% Sulphur (Detrmination of sulphur by using Abrolins Apparatus)	Laboratory Develop method (Abrolins Method)
28	CHEMICAL- WATER	Water for construction purpose	Acidity-0.02 N NaOH Required to neutralize 100 ml of water	IS 3025 (Part 22)
29	CHEMICAL- WATER	Water for construction purpose	Alkalinity-0.02 N H2SO4 Required to neutralize 100 ml of water	IS 3025 (Part 23)
30	CHEMICAL- WATER	Water for construction purpose	Chloride	IS 3025 (Part 32)
31	CHEMICAL- WATER	Water for construction purpose	Fixed Residue	IS 3025 (Part 18)
32	CHEMICAL- WATER	Water for construction purpose	pH Value	IS 3025 (Part 11)
33	CHEMICAL- WATER	Water for construction purpose	Sulphates	IS 3025 (Part 24)
34	CHEMICAL- WATER	Water for construction purpose	Total Dissolved solids	IS 3025 (Part 16)
35	CHEMICAL- WATER	Water for construction purpose	Total Hardness	IS 3025 (Part 21)
36	CHEMICAL- WATER	Water for construction purpose	Total Suspended Solids	IS 3025 (Part 17)
37	CHEMICAL- WATER	Water for construction purpose	Volatile Residue	IS 3025 (Part 18)
38	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Compressive Strength	IS 6441 (Part 5)
39	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dry Density	IS 6441 (Part 1)

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40	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Bulk Specific Gravity	ASTMD 2726
41	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
42	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Fire Point	IS 1209
43	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209
44	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Marshall Stability	ASTM 6927
45	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
46	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
47	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
48	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6)
49	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4)
50	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part 11)
51	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5)
52	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness By 90 mic. Dry Sieving	IS 4031 (Part 2)
53	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine’s Air Permeability	IS 4031 (Part 2)
54	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5)
55	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-chatelier method	IS 4031 (Part 3)
56	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
57	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Dry loose bulk density	IS 2386 (Part 4)
58	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (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
59	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
61	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve Size: 0.075 mm to 63 mm)	IS 2386 (part 1)
62	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
63	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
64	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate & Fine Aggregate	Soundness by MgSO4	IS 2386 (Part 5)
65	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate & Fine Aggregate	Soundness by NaSO4	IS 2386 (Part 5)
66	MECHANICAL- BUILDINGS MATERIALS	Concrete	Accelerated cured concrete Cube test	IS 9013
67	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive strength of concrete cube	IS 516 (Part 1/ Sec. 1)
68	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural strength of Concrete Beam	IS 516 (Part 1/ Sec. 1)
69	MECHANICAL- BUILDINGS MATERIALS	Concrete Cylinder Core	Compressive Strength	IS 516 (Part 4)
70	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Dry loose bulk density	IS 2386 (Part 4)
71	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material finer than 75 µ	IS 2386 (Part 1)
72	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Sieve Size: 0.075 mm to 63 mm)	IS 2386 (Part 1)
73	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
74	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
75	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Compressive strength	IS 1727
76	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Final Setting Time (min)	IS 1727
77	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness by by Blaine's permeability	IS 1727

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78	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Initial Setting Time (min)	IS 1727
79	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Soundness by Le Chatelier Method	IS 1727
80	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific Garvity	IS 1727
81	MECHANICAL- BUILDINGS MATERIALS	Fly ash & Burnt clay	Dimension - Width	IS 1077 (1992) & IS 12894
82	MECHANICAL- BUILDINGS MATERIALS	Fly ash and Burnt clay	Water Absorption	IS 3495 (Part-2)
83	MECHANICAL- BUILDINGS MATERIALS	Fly ash and Burnt clay	Compressive Strength	IS 3495 (Part-1)
84	MECHANICAL- BUILDINGS MATERIALS	Fly ash and Burnt clay	Dimension - Height	IS 1077, IS 12894
85	MECHANICAL- BUILDINGS MATERIALS	Fly ash and Burnt clay	Dimension - Length	IS 1077, IS 12894
86	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Compressive Strength	IS 15658
87	MECHANICAL- BUILDINGS MATERIALS	Paving Blocks	Water Absorption	IS 15658
88	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar) up to 40mm diameter	0.2% Proof Stress	IS 1608 (Part 1)
89	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar) up to 40mm diameter	Bend Test	IS 1599
90	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar) up to 40mm diameter	Re-bend Test	IS 1786
91	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar) up to 40mm diameter	Ultimate Tensile strength	IS 1608 (Part 1)
92	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar) up to 40mm diameter	Weight per meter	IS 1786
93	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar) up to 40mm diameter	Yield Strength	IS 1608 (Part 1)
94	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel (rebar) upto 40mm diameter	% Elongation	IS 1608 (Part 1)
95	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel bars and wires for concrete reinforcement -upto 25mm Diameter	% Elongation	IS 1608 (Part 1)

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96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel bars and wires for concrete reinforcement -upto 25mm Diameter	0.2% Proof Stress	IS 1608 (Part 1)
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel bars and wires for concrete reinforcement -upto 25mm Diameter	Bend Test	IS 1599
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel bars and wires for concrete reinforcement -upto 25mm Diameter	Re-bend Test	IS 1786
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel bars and wires for concrete reinforcement -upto 25mm Diameter	Ultimate Tensile strength	IS 1608 (Part 1)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel bars and wires for concrete reinforcement -upto 25mm Diameter	Weight per meter	IS 1786
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel bars and wires for concrete reinforcement -upto 25mm Diameter	Yield Strength	IS 1608 (Part 1)
102	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Porosity	IS 1124
103	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Specific Gravity	IS 1122
104	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Water Absorption	IS 1124
105	MECHANICAL- SOIL AND ROCK	Natural Building Stones / Rock	Unconfined Compressive Strength	IS 9143
106	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720 (Part 16)
107	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
108	MECHANICAL- SOIL AND ROCK	Soil	Grain size Analysis	IS 2720 (Part 4)
109	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction	IS 2720 (Part 8)
110	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction	IS 2720 (Part 7)
111	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
112	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2)

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113	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
114	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/ sec- 1& 2)
115	MECHANICAL- SOIL AND ROCK	Soil & Rock	Safe Bearing Capacity and Modulus of sub-grade reaction by Plate load test	IS 1888
116	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete structures	Rebound Hammer test	IS 516 (Part 5/ Sec. 4)
117	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete structures	Ultrasonic Pulse Velocity	IS 516 (Part 5/ Sec.1)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density By Core Cutting method	IS 2720 (Part 29)
2	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density By Sand Replacement method	IS 2720 (Part 28)