



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name STRONG TECH ENGINEERING SERVICES AND RESEARCH (I) PVT. LTD., SR. NO. 95, LOHEGAON - WAGHOLI ROAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-5114 Page No. : 1 / 7

Validity 20/03/2019 to 19/03/2021 Last Amended on 23/05/2019

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
1	MECHANICAL-BUILDINGS MATERIALS	AAC Blocks	Compressive Strength	IS 6441 (Part-1) : 1972	2 N/mm <sup>2</sup> to 20 N/mm <sup>2</sup>
2	MECHANICAL-BUILDINGS MATERIALS	AAC Blocks	Dry Density	IS 6441 (Part 1): 1972	100 kg/m <sup>3</sup> to 2000 kg/m <sup>3</sup>
3	MECHANICAL-BUILDINGS MATERIALS	Accelerated cured concrete Cube test	Accelerated cured concrete Cube test	IS 9013: 1978	20 N/m <sup>2</sup> to 90 N/m <sup>2</sup>
4	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6): 1988	10 N/mm <sup>2</sup> to 75 N/mm <sup>2</sup>
5	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4): 1988	20 % to 40 %
6	MECHANICAL-BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part 11): 1988	2.75 g/cm <sup>3</sup> to 3.5 g/cm <sup>3</sup>
7	MECHANICAL-BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5): 1988	30 minute to 600 minute
8	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness By 90 mic. Dry Sieving	IS 4031 (Part 2): 1988	1 % to 15 %
9	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by Blaine's Air Permeability	IS 4031 (Part 2) : 1988	100 m <sup>2</sup> /kg to 600 m <sup>2</sup> /kg



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10	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5): 1988	5 minute to 300 minute
11	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness by Le-chatelier method	IS 4031 (Part 3): 1988	0.01 mm to 15 mm
12	MECHANICAL-BUILDINGS MATERIALS	Coarse	Crushing Value	IS 2386 (Part 4): 1963	1 % to 50 %
13	MECHANICAL-BUILDINGS MATERIALS	Coarse	Dry loose bulk density	IS 2386 (Part 4): 1963	1 kg/l to 2.5 kg/l
14	MECHANICAL-BUILDINGS MATERIALS	Coarse	Elongation Index	IS 2386 (Part 1): 1963	1 % to 50 %
15	MECHANICAL-BUILDINGS MATERIALS	Coarse	Flakiness Index	IS 2386 (Part 1): 1963	1 % to 50 %
16	MECHANICAL-BUILDINGS MATERIALS	Coarse	Impact Value	IS 2386 (Part 4): 1963	1 % to 50 %
17	MECHANICAL-BUILDINGS MATERIALS	Coarse	Sieve Analysis	IS 2386 (part 1): 1963	0.075 mm to 63 mm
18	MECHANICAL-BUILDINGS MATERIALS	Coarse	Specific Gravity	IS 2386 (Part 3): 1963	1.50 to 5.0







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37	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strngth Deformed steel bars and wires for concrete einforcement - upto 25mm Diameter	Bend Test	IS 1599: 2012	Qualitative(Mandrel diameter: 12,16,18,20,24,30,32,36,40,48,50,60,64,75,80,100,125,150 in mm))
38	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strngth Deformed steel bars and wires for concrete einforcement - upto 25mm Diameter	Re-bend Test	IS 1786: 2008	Qualitative(Mandrel Diameter: 24,30,36,40,42,48,50,56,60,70,72,84,96,112,120,128,140,150,160,175,200 in mm))
39	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strngth Deformed steel bars and wires for concrete einforcement - upto 25mm Diameter	Ultimate Tensile strength	IS 1608-Part 1: 2018	100 N/mm <sup>2</sup> to 1500 N/mm <sup>2</sup>
40	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strngth Deformed steel bars and wires for concrete einforcement - upto 25mm Diameter	Weight per meter	IS 1786: 2008	0.3 kg/m to 6.5 kg/m
41	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strngth Deformed steel bars and wires for concrete einforcement - upto 25mm Diameter	Yield Strength	IS 1608-Part 1: 2018	100 N/mm <sup>2</sup> to 1500 N/mm <sup>2</sup>
42	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Porosity	IS 1124: 1974	1 % to 50 %
43	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Specific Gravity	IS 1122: 1974	1.0 to 4.0
44	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Water Absorption	IS 1124: 1974	0.1 % to 20 %



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45	MECHANICAL- SOIL AND ROCK	Natural Building Stones / Rock	Unconfined Compressive Strength of Rock	IS 9143: 1979	10 kg/cm <sup>2</sup> to 1000 kg/cm <sup>2</sup>
46	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720 (Part 16): 1987	1 % to 60 %
47	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40): 1977	1 % to 90 %
48	MECHANICAL- SOIL AND ROCK	Soil	Grain size Analysis	IS 2720 (Part 4): 1985	0.075 mm to 60 mm
49	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction	IS 2720 (Part 8): 1983	1.2 g/cm <sup>3</sup> to 3.0 g/cm <sup>3</sup>
50	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction	IS 2720 (Part 7): 1980	1.2 g/cm <sup>3</sup> to 3.0 g/cm <sup>3</sup>
51	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5): 1985	20 % to 80 %
52	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2): 1973	0.1 % to 35 %
53	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5): 1985	10 % to 40 %
54	MECHANICAL- SOIL AND ROCK	Soil	SITE TESTING – Field Dry Density ByCore Cutting method	IS 2720 (Part 29): 1975	1.2 g/cm <sup>3</sup> to 3.0 g/cm <sup>3</sup>
55	MECHANICAL- SOIL AND ROCK	Soil	SITE TESTING – Field Dry Density BySand Replacement method	IS 2720 (Part 28): 1974	1.2 g/cm <sup>3</sup> to 3.0 g/cm <sup>3</sup>
56	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/ sec-1 & 2): 1980	2.0 to 2.90





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57	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete structures	Rebound Hammer test	IS 13311 (Part 2): 1992	10 RN to 90 RN
58	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	concrete structures	Ultrasonic Pulse Velocity	IS 13311 (Part 1): 1992	0.1 km/s to 5.0 km/s