



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KARNATAKA TEST HOUSE PVT LTD, 778/44, GOKUL 1ST STAGE, 2ND PHASE, 8TH CROSS, TRIVENI ROAD, YESHWANTHPUR, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6011 Page No. : 1 / 8

Validity 12/07/2019 to 11/07/2021 Last Amended on -

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
Permanent Facility					
1	MECHANICAL-BUILDINGS MATERIALS	Bricks	Compressive Strength (Load 10kN to 600 kN)	IS 3495 (Part 2): 1992	1 N/mm ² to 30 N/mm ²
2	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension(Height)	IS 1077: 1992	1290 mm to 1500 mm
3	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension(Length)	IS 1077: 1992	4520 mm to 4680 mm
4	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension(Width)	IS 1077: 1992	2100 mm to 2300 mm
5	MECHANICAL-BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part 3): 1992	Qualitative(Visual Observations)
6	MECHANICAL-BUILDINGS MATERIALS	Bricks	Water Absorption	Is 3495 (Part 1): 1992	1 % to 30 %
7	MECHANICAL-BUILDINGS MATERIALS	Cement	Autoclave Method(Soundness)	IS 4031 (Part 3): 1988	0 % to 2 %
8	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength (Load 10kN to 400 kN)	IS 4031 (Part 6): 1988	1 N/mm ² to 80 N/mm ²
9	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4): 1988	15 % to 40 %



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10	MECHANICAL-BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5): 1988	10 minutes to 600 minutes
11	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness(Blaine's Method)	IS 4031 (Part 2): 1999	100 m ² /kg to 400 m ² /kg
12	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial Setting Time	Is 4031 (Part 5): 1988	5 minutes to 300 minutes
13	MECHANICAL-BUILDINGS MATERIALS	Cement	Le-Chatlier Method(Soundness)	IS 4031 (Part 3): 1988	0.1 mm to 10 mm
14	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Bulk Density	IS 13630 (Part 2): 2006	1.5 g/cc to 2.5 g/cc
15	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Crazing Test	Is 13630 (Part 9): 2006	Qualitative(Visual observation)
16	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Modulus of Rupture	IS 13630 (Part 6): 2006	1.5 N/mm ² to 35 N/mm ²
17	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Water Absorption	IS 13630 (Part 2): 2006	0.01 % to 10 %
18	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10% fines Value	IS 2386 (Part 4): 1963	2 Tonnes to 25 Tonnes
19	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Abrasion Value	IS 2386 (Part 4): 1963	1 % to 50 %



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20	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Crushing Value	IS 2386 (Part 4) : 1963	1 % to 50 %
21	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS 2386 (Part 4): 1963	1 % to 50 %
22	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Loose & Rodded)	IS 2386 (Part 3): 1963	1.0 kg/L to 3.0 kg/L
23	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1): 1963	2 % to 50 %
24	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1): 1963	2 % to 50 %
25	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1): 1963	4.75 mm to 63 mm
26	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3): 1963	2 to 4
27	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3): 1963	0.01 % to 5 %
28	MECHANICAL-BUILDINGS MATERIALS	Concrete BLOCKS(Hollow/Solid)	Block Density	IS 2185 (Part 1): 2005	1000 kg/m ³ to 2200 kg/m ³
29	MECHANICAL-BUILDINGS MATERIALS	Concrete Blocks(Hollow/Solid)	Compressive Strength (Load: 10 kN to 1500 kN)	IS 2185 (Part 1): 2005	1 N/mm ² to 15 N/mm ²



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30	MECHANICAL-BUILDINGS MATERIALS	Concrete Blocks(Hollow/Solid)	Water Absorption	IS 2185 (Part 1): 2005	1 % to 25 %
31	MECHANICAL-BUILDINGS MATERIALS	Concrete Cube / Core	Compressive Strength	IS 516: 1959	2.5 N/mm ² to 80 N/mm ²
32	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density(Loose & Rodded)	IS 2386 (Part 3): 1963	0.5 kg/L to 3.0 kg/L
33	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulking	IS 2386 (Part 3): 1963	1 % to 50 %
34	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Particle Finer than 75 Micron	IS 2386 (Part 1): 1963	0.1 % to 20 %
35	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1): 1963	0.150 mm to 10 mm
36	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3): 1963	2 to 4
37	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3): 1963	0.01 % to 10 %
38	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Bend	IS 1599: 1985	Qualitative(Mandrel dia(mm) : 16, 20, 24,30,32,36,40, 44, 50, 56, 60, 64, 70, 75, 84, 100, 108, 120,125,140, 150, 160,175,192, 224 and 256)



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39	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Elongation	IS 1608: 2005	1 % to 30 %
40	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Rebend Test	IS 1786: 2008	Qualitative(Mandrel dia(mm) :32, 40, 44, 50, 56, 60, 70, 84,100,108, 120, 140, 150, 160, 175, 192,224, 256 and 288)
41	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Tensile Strength (20 kN to 800 kN)	IS 1786: 2008	50 N/mm ² to 900 N/mm ²
42	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed steel bars and Wires for concrete Reinforcement	weight/Meter	Is 1786: 2008	0.1 kg to 30 kg
43	MECHANICAL-BUILDINGS MATERIALS	High strength deformed Steel bars and Wires for Concrete Reinforcement	Yield Stress (Load 10 kN to 500 kN)	IS 1786: 2008	50 N/mm ² to 700 N/mm ²
44	MECHANICAL-BUILDINGS MATERIALS	Paver Blocks	water Absorption	IS 15658: 2006	1 % to 20 %
45	MECHANICAL-BUILDINGS MATERIALS	Pavers Blocks	Compressive strength (Load: 20kN to 2000kN)	IS 15658: 2006	1 N/mm ² to 80 N/mm ²
46	MECHANICAL-BUILDINGS MATERIALS	Tar and Bituminous Materials	Ductility	IS 1208: 1978	1 cm to 100 cm



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47	MECHANICAL- BUILDINGS MATERIALS	Tar and Bituminous Materials	Penetration	IS 1203: 1978	10 (1/10th mm) to 100 (1/10thmm)
48	MECHANICAL- BUILDINGS MATERIALS	Tar and Bituminous Materials	Stripping Value	IS 6241: 1971	0 % to 100 %
49	MECHANICAL- SOIL AND ROCK	Rock	Point Load index	IS 8764 : 1998	1 kN/m ² to 3500 kN/m ²
50	MECHANICAL- SOIL AND ROCK	Rock	Uniaxial Compressive Strength	IS 9143: 1979	1 kg/cm ² to 2000 kg/cm ²
51	MECHANICAL- SOIL AND ROCK	Soil	CBR	IS 2720 (Part 16): 1987	1 % to 50 %
52	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (CC)	IS 2720 (Part 15): 1965	0.05 to 0.4
53	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test	IS 2720 (Part 13): 1986	1 Degree to 45 Degree
54	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test	IS 2720 (Part 13): 1986	0.01 kg/cm ² to 1 kg/cm ²
55	MECHANICAL- SOIL AND ROCK	Soil	Field Density (By Sand Replacement Method)	IS 2720 (Part 28): 1974	1 g/cc to 2.5 g/cc
56	MECHANICAL- SOIL AND ROCK	Soil	Field Density(By Core Cutter Method)	IS 2720 (Part 29): 1975	1 g/cc to 2.5 g/cc
57	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40): 1977	0 % to 80 %
58	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction(MDD)	IS 2720 (Part 8): 1983	1.2 g/cc to 2.2 g/cc
59	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction(OMC)	IS 2720 (Part 8): 1983	6 % to 30 %



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60	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction(MDD)	IS 2720 (Part 7): 1980	1.2 g/cc to 2.2 g/cc
61	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction(OMC)	IS 2720 (Part 7): 1980	6 % to 30 %
62	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5): 1985	15 % to 200 %
63	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2): 1973	1 % to 45 %
64	MECHANICAL- SOIL AND ROCK	Soil	Particle Size Analysis by Hydrometer Method	IS 2720 (Part 4): 1985	0.002 m to 0.075 m
65	MECHANICAL- SOIL AND ROCK	Soil	Particle Size Analysis by Wet sieving	IS 2720 (Part 4): 1985	0.075 mm to 4.75 mm
66	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5): 1985	5 % to 100 %
67	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3) Sec 1 & 2: 1980	0.5 to 3
68	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear with pore pressure (CU)	IS 2720 (Part 12): 1993	1 Degree to 40 Degree
69	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear with Pore Pressure (CU) (C)	IS 2720 (Part 12): 1993	0.01 kg/cm ² to 1 kg/cm ²
70	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Without Pore pressure (UU) (C)	IS 2720 (Part 11): 1993	0.01 kg/cm ² to 1 kg/cm ²
71	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear without Pore Pressure(UU)	IS 2720 (Part 11): 1993	1 Degree to 40 Degree
72	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (Part 10): 1991	0 kg/cm ² to 3 kg/cm ²



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73	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials – Reinforced Concrete Structures	Cover Meter Test	BS 1881 (Part 204): 1988	1 mm to 90 mm
74	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials – Reinforced Concrete Structures	Rebound Hammer Test	IS 13311 (Part II): 1992	10 RN to 60 RN
75	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials – Reinforced Concrete Structures	Ultrasonic Pulse Velocity Tests	IS 516 Part 5 Section 1: 2018	1 km/s to 5 km/s
76	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials- Reinforced Concrete Structures	Carbonation Test	BS EN 14630: 2006	0 to 80
77	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials- Reinforced Concrete Structures	Half - Cell Potential Test	ASTM C 876: 2015	-100 mV to -700 mV