National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ACADEMY OF CONCRETE TECHNOLOGY (A C T), #72, C.H BUILDING, 2ND A MAIN, 60 FEET ROAD, MALLATHAHALLI, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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	MECHANICAL- BUILDINGS MATERIALS	Beams	Flexural Strength	IS 516 (Part 1/ Sec 1)
2	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Compressive Strength	3495 (Part1)
3	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Efflorescence	IS 3495 (Part 3)
4	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Height	IS 1077
5	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Length	IS 1077
6	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Water Absorption	IS 3495 (part 2)
7	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Width	IS 1077
8	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Breaking Strength	IS 13630 (Part 6)
9	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Bulk Density	IS 13630 (Part 2)
10	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Center Curvature	IS 13630 (Part 1)
11	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Crazing	IS 13630 (Part 9)
12	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Dimension-Length & Width	IS 13630 (Part 1)
13	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Dimension-Thickness	IS 13630 (Part 1)
14	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Edge Curvature	IS 13630 (Part 1)
15	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Modulus of Rupture	IS 13630 (Part 6)
16	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Rectangularity	IS 13630 (Part 1)
17	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Scratch Hardness	IS 13630 (Part 13)
18	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Straightness	IS 13630 (Part 1)

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19	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Warpage	IS 13630 (Part 1)
20	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ vitrified tiles	Water Absorption	IS 13630 (Part 2)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregates	10 % Fines Value	IS 2386 (Part 4)
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density (loose & Rodded)	IS 2386 (Part 3)
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Clay Lumps	IS 2185 (Part 2)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS 2386 (Part 4)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part 1)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part 1)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Impact Value	IS 2386 (Part 4)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Los Angles Abrasion Value	IS 2386 (Part 4)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Particle Finer Than 75 Micron	IS 2386 (Part 1)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis (Sieve Size: 80 mm, 63 mm, 40 mm, 20 mm, 16 mm, 12.5 mm, 10 mm, 4.75 mm, 2.36 mm)	IS 2386 (Part 1)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 (Part 3)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 (Part 3)
33	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Air Content	IS 1199 (Part 4)
34	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Bleeding	IS 9103
35	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Compressive Strength	IS 516 (Part 1/ Sec 1)
36	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Flexural Strength	IS 516 (Part 1/ Sec 1)

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37	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Length Change	IS 516 (Part 6)
38	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Setting Time	IS 1199 (Part 7)
39	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Water content	IS 9103
40	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Workability (Slump)	IS 1199 (Part 2)
41	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk Density (loose & Rodded)	IS 2386 (Part 3)
42	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulking	IS 2386 (Part 3)
43	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Clay Lumps	IS 2386 (Part 2)
44	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Particle Finer Than 75 Micron	IS 2386 (Part 1)
45	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis (Sieve Size: 10 mm, 4.75 mm, 2.36 mm, 1.18 mm, 600 µm, 300 µm, 150 µm)	IS 2386 (Part 1)
46	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS 2386 (Part 3)
47	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (Part 3)
48	MECHANICAL- BUILDINGS MATERIALS	FLYASH	Compressive Strength	IS 1727
49	MECHANICAL- BUILDINGS MATERIALS	FLYASH	Fineness by Blaines Method	IS 1727
50	MECHANICAL- BUILDINGS MATERIALS	FLYASH	Residue on 45 Micron Sieve	IS 1727
51	MECHANICAL- BUILDINGS MATERIALS	FLYASH	Soundness (by Autoclave)	IS 1727
52	MECHANICAL- BUILDINGS MATERIALS	FLYASH	Specific Gravity	IS 1727
53	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete (Tests on Fresh Self Compacting Concrete)	V Funnel Test	IS 1199 (Part 6)
54	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Determination of Air Content of Fresh Concrete	IS 1199 (Part 4)

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55	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Determination of Setting Time of Concrete by Penetration Resistance	IS 1199 (Part 7)
56	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete (Tests on Fresh Self Compacting Concrete)	Flow test and t 500 Test	IS 1199 (Part 6)
57	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete (Tests on Fresh Self Compacting Concrete)	L Box	IS 1199 (Part 6)
58	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete (Tests on Fresh Self Compacting Concrete)	Sieve Segregation Resistance Test	IS 1199 (Part 6)
59	MECHANICAL- BUILDINGS MATERIALS	Ground Granulated Blast Furnace Slag	Fineness by Blaine's	IS 16714
60	MECHANICAL- BUILDINGS MATERIALS	Ground Granulated Blast Furnace Slag	Slag Activity Index	IS 16714
61	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Method of Test Splitting Tensile Strength of Concrete	IS 516 (Part 1/ Sec 1)
62	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Accelerated Curing Compressive Strength	IS 9013
63	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Testing of Concrete Cores)	Compressive Strength	IS 516 (Part 4)
64	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Cube/Core	Compressive Strength	IS 516 (Part 1/ sec 1)
65	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement	Normal or Standard Consistency	IS 4031 (Part 4)
66	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement	Compressive Strength	IS 4031 (Part 6)
67	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement	Density	IS 4031 (Part 11)
68	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement	Final Setting Time	IS 4031 (Part 5)
69	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement	Fineness- Blaine's Air Permeability Method	IS 4031 (Part 2)
70	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement	Fineness by Dry Sieving	IS 4031 (Part 1)
71	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement	Initial Setting Time	IS 4031 (part 5)
72	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement	Soundness by Autoclave Method	IS 4031 (Part 3)

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73	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement	Soundness by Le-Chatelier's Method	IS 4031 (Part 3)
74	MECHANICAL- BUILDINGS MATERIALS	Masonry Units-Hollow/Solid Concrete Blocks	Block Density	IS 2185 (Part 1) Annex C
75	MECHANICAL- BUILDINGS MATERIALS	Masonry Units-Hollow/Solid Concrete Blocks	Compressive Strength	IS 2185 (Part 1) Annex D
76	MECHANICAL- BUILDINGS MATERIALS	Masonry Units-Hollow/Solid Concrete Blocks	Dimension - Length	IS 2185 (Part 1)
77	MECHANICAL- BUILDINGS MATERIALS	Masonry Units-Hollow/Solid Concrete Blocks	Dimension-Thickness	IS 2185 (Part 1)
78	MECHANICAL- BUILDINGS MATERIALS	Masonry Units-Hollow/Solid Concrete Blocks	Dimension-Width	IS 2185 (Part 1)
79	MECHANICAL- BUILDINGS MATERIALS	Masonry Units-Hollow/Solid Concrete Blocks	Drying Shrinkage	IS 2185 (Part 1) Annex F
80	MECHANICAL- BUILDINGS MATERIALS	Masonry Units-Hollow/Solid Concrete Blocks	Moisture Movenment	IS 2185 (Part 1) Annex G
81	MECHANICAL- BUILDINGS MATERIALS	Masonry Units-Hollow/Solid Concrete Blocks	Water Absorption	IS 2185 (Part 1) Annex E
82	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Block	Thickness	IS 15658 (Annex B)
83	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Abrasion Resistance	IS 15658 (Annex E)
84	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Compressive Strength	IS 15658 (Annex D)
85	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Flexural Strength	IS 15658 (Annex G)
86	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Length & Width	IS 15658 (Annex B)
87	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Tensile Splitting Strength	IS 15658 (Annex F)
88	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Water Absorption	IS 15658 (Annex C)
89	MECHANICAL- BUILDINGS MATERIALS	Properties of Hardened Concrete other than Strength Section	Depth of Water Penetration Under Pressure	IS 516 (Part 2 :sec 1)
90	MECHANICAL- BUILDINGS MATERIALS	Silica Fume	Compressive Strength	IS 1727
91	MECHANICAL- BUILDINGS MATERIALS	Silica Fume	Residue on 45 Micron	IS 1727

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92	MECHANICAL- BUILDINGS MATERIALS	Silica Fume	Specific Gravity	IS 1727
93	MECHANICAL- BUILDINGS MATERIALS	Ultrafine Ground Granulated Blast Furnace Slag	Slag Activity Index	IS 16715