National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ADITYA ENGINEERING COLLEGE CONCRETE TECHNOLOGY AND HIGHWAY MATERIAL TESTING LABORATORY, SURAMPALEM, KAKINADA, EAST GODAVARI, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9410 **Page No** 1 of 3

Validity 05/04/2021 to 04/04/2023 **Last Amended on** -

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	Cement OPC& PPC	Initial Setting Time	IS 4031 (Part 5)
2	MECHANICAL- BUILDINGS MATERIALS	Cement OPC& PPC	Compressive Strength	IS 4031 (Part 6)
3	MECHANICAL- BUILDINGS MATERIALS	Cement OPC& PPC	Standard Consistency	IS 4031 (Part 4)
4	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Compressive Strength	IS 6441, Part 5
5	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Moisture Content	IS 6441, Part 1
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
8	MECHANICAL- BUILDINGS MATERIALS	bitumen	Softening point	IS 1205
9	MECHANICAL- BUILDINGS MATERIALS	Burnt clay Bricks/ Fly ash bricks	Compressive Strength	IS 3495 (Part 1)
10	MECHANICAL- BUILDINGS MATERIALS	Burnt clay Bricks/ Fly ash bricks	Water Absorption	IS 3495 (Part 2)
11	MECHANICAL- BUILDINGS MATERIALS	Cement OPC& PPC	Soundness by Le-Chatelier	IS 4031 (Part 3)
12	MECHANICAL- BUILDINGS MATERIALS	Cement OPC& PPC	Density	IS 4031 (Part 11)
13	MECHANICAL- BUILDINGS MATERIALS	Cement OPC& PPC	Final Setting Time	IS 4031 (Part 5)
14	MECHANICAL- BUILDINGS MATERIALS	Cement OPC& PPC	Fineness By Blaines Air permeability	IS 4031 (Part 2)
15	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing value	IS 2386 (Part 4)
16	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation index	IS 2386 (Part 1)
17	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness index	IS 2386 (Part 1)
18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386 (Part 4)

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19	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (100 mm to 4.75 mm)	IS 2386 (Part 1)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific gravity	IS 2386 (Part 3)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
22	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516 (Part 4)
23	MECHANICAL- BUILDINGS MATERIALS	Concrete cube	Compressive Strength	IS 516
24	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate (10 mm to 75 micron)	Sieve analysis	IS 2386 (Part 1)
25	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Bulk density	IS 2386 (Part 3)
26	MECHANICAL- BUILDINGS MATERIALS	fine aggregate	Particle finer than 75 µm (%)	IS 2386 (Part 1)
27	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Specific gravity	IS 2386 (Part 3)
28	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Water Absorption	IS 2386 (Part 3)
29	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive strength	IS15658
30	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
31	MECHANICAL- BUILDINGS MATERIALS	Reinforcement steel(rebar)	0.2% proof stress	IS 1608 (Part 1)
32	MECHANICAL- BUILDINGS MATERIALS	Reinforcement steel(rebar)	Bend Test	IS 1599
33	MECHANICAL- BUILDINGS MATERIALS	Reinforcement steel(rebar)	Elongation	IS 1608 (Part 1)
34	MECHANICAL- BUILDINGS MATERIALS	Reinforcement steel(rebar)	Re bend Test	IS 1786
35	MECHANICAL- BUILDINGS MATERIALS	Reinforcement steel(rebar)	Ultimate stress	IS 1608 (Part 1)
36	MECHANICAL- BUILDINGS MATERIALS	Reinforcement steel(rebar)	Weight/metre , kg/ metre	IS 1786
37	MECHANICAL- SOIL AND ROCK	soil	California Bearing Ratio	IS 2720 (Part 16)

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38	MECHANICAL- SOIL AND ROCK	soil	Direct shear (Un drained) cohession	IS 2720 (Part 13)
39	MECHANICAL- SOIL AND ROCK	soil	Direct shear (Un drained) friction angle Ø	IS 2720 (Part 13)
40	MECHANICAL- SOIL AND ROCK	soil	Free Swell Index	IS 2720 (Part 40)
41	MECHANICAL- SOIL AND ROCK	Soil	Grain Size analysis- wet (4.75 mm to 75 micron)	IS 2720 (Part 4)
42	MECHANICAL- SOIL AND ROCK	soil	Heavy compaction(MDD)	IS 2720 (Part 8)
43	MECHANICAL- SOIL AND ROCK	Soil	Heavy compaction(OMC)	IS 2720 (Part 8)
44	MECHANICAL- SOIL AND ROCK	soil	Light compaction OMC	IS 2720 (Part 7)
45	MECHANICAL- SOIL AND ROCK	Soil	Light compaction(MDD)	IS 2720 (Part 7)
46	MECHANICAL- SOIL AND ROCK	soil	Liquid Limit	IS 2720 (Part 5)
47	MECHANICAL- SOIL AND ROCK	soil	Plastic limit	IS 2720 (Part 5)
48	MECHANICAL- SOIL AND ROCK	Soil	Specific gravity	IS 2720 (Part 3)
49	MECHANICAL- SOIL AND ROCK	soil	Tri axial (Cohession)	IS 2720 (Part 12)
50	MECHANICAL- SOIL AND ROCK	soil	Tri axial (Friction angle Ø)	IS 2720 (Part 12)