National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ARTECH ENGINEERS (TECHNO CONSULTANT & TESTING SERVICES), A-1, PRAGATI VIHAR (WEST), BAHATARAI ROAD, BILASPUR, CHHATTISGARH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10789 **Page No** 1 of 6

Validity 08/07/2022 to 07/07/2024 **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	Burnt Clay Building Bricks & Brunt Clay Fly Ash Building Bricks	Dimension - Length	IS 1077
2	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks & Brunt Clay Fly Ash Building Bricks	Water Absorption	IS 3495 (Part 2)
3	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks & Brunt Clay Fly Ash Building Bricks	Dimension - Height	IS 1077
4	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks & Brunt Clay Fly Ash Building Bricks	Dimension - Width	IS 1077
5	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks & Burnt Clay Fly Ash Building Bricks	Compressive Strength	IS 3495 (Part 1)
6	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks & Burnt Clay Fly Ash Building Bricks	Efflorescence	IS 3495 (Part 3)
7	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength of Hydraulic Cement Other Than Masonry Cement	IS 4031 (Part 6)
8	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency of Standard Cement Paste	IS 4031 (Part 4)
9	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5)
10	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-Chateliers	IS 4031 (Part 3)
11	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part 11)
12	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5)
13	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Dry Sieving	IS 4031 (Part 1)
14	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete	Compressive Strength of Concrete Core	IS 516 (Part 4)
15	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete	Compressive Strength of Cubes	IS 516 (Part 1/ Sec 1)
16	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Water Absorption	IS 13630 (Part 2)
17	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Scratch Hardness of surface according to Mohs' Scale	IS 13630 (Part 13)
18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	10 percent fines value	IS 2386 (Part 4)

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19	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Aggregate Abrasion Value by Los Angeles Machine	IS 2386 (Part 4)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Aggregate Crushing Value	IS 2386 (Part 4)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Aggregate Impact Value	IS 2386 (Part 4)
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part 1)
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 (Part 3)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density	IS 2386 (Part 3)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part 1)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Estimation of Deleterious Materials and Organic Impurities - Clay Lumps	IS 2386 (Part 2), Clause 2
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Estimation of Deleterious Materials and Organic Impurities - Light Weight Pieces in (Coal & Lignite)	IS 2386 (Part 2), Clause 4
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Estimation of Deleterious Materials and Organic Impurities - Organic Impurities	IS 2386 (Part 2), Clause 6
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Estimation of Deleterious Materials and Organic Impurities - Soft Particle	IS 2386 (Part 2), Clause 5
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis (Sieve Size: 2.36 mm to 80 mm))	IS 2386 (Part 1)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Soundness	IS 2386 (Part 5)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 (Part 3)
33	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Block	Dimension	IS 15658
34	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Block	Water Absorption	IS 15658
35	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Block	Compressive Strength	IS 15658

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36	MECHANICAL- BUILDINGS MATERIALS	Fine Aggragates	Estimation of Deleterious Materials and Organic Impurities - Clay Lumps	IS 2386 (Part 2), Clause 2
37	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Estimation of Deleterious Materials and Organic Impurities - Organic Impurities	IS 2386 (Part 2), Clause 6
38	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS 2386 (Part 3)
39	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk Density	IS 2386 (Part 3)
40	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Estimation of Deleterious Materials and Organic Impurities - Light Weight Pieces in (Coal & Lignite)	IS 2386 (Part 2), Clause 4
41	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Estimation of Deleterious Materials and Organic Impurities - Soft Particle	IS 2386 (Part 2), Clause 5
42	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis (Sieve Size: 0.15 mm to 10 mm)	IS 2386 (Part 1)
43	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Soundness	IS 2386 (Part 5)
44	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (Part 3)
45	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel & Structural Steel	% of Elongation	IS 1608 (Part 1)
46	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel & Structural Steel	Mass Per Meter	IS 1786
47	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel & Structural Steel	Ultimate Tensile Strength	IS 1608 (Part 1)
48	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel & Structural Steel	Yield Stress	IS 1608 (Part 1)
49	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Compressive Strength	IS 1121 (Part 1)
50	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Water Absorption	IS 1124
51	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143
52	MECHANICAL- SOIL AND ROCK	Rock	Water Content of Rock sample	IS 13030

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53	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index of Soil	IS 2720 (Part 40)
54	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2)
55	MECHANICAL- SOIL AND ROCK	Soil	ORGANIC MATTER	IS 2720 (Part 22)
56	MECHANICAL- SOIL AND ROCK	Soil	Permeability by Constant Head method	IS 2720 (Part 17)
57	MECHANICAL- SOIL AND ROCK	Soil	Permeability by Falling Head method	IS 2720 (Part 17)
58	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
59	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Factors	IS 2720 (Part 6)
60	MECHANICAL- SOIL AND ROCK	Soil	(CU) Shear Strength Parameters of soil from Consolidated Undrained Triaxial Compression Test with Measurement of Pore Water Pressure	IS 2720 (Part 12)
61	MECHANICAL- SOIL AND ROCK	Soil	(UCS) Unconfined Compressive Strength	IS 2720 (Part 10)
62	MECHANICAL- SOIL AND ROCK	Soil	(UU) Unconsolidated Undrained Triaxial Compressive Without Measurement of Pore Water Pressure	IS 2720 (Part 11)
63	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720 (Part 16)
64	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part 4)
65	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
66	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density (MDD) by Heavy Compaction	IS 2720 (Part 8)
67	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density (MDD) by Light Compaction	IS 2720 (Part 7)
68	MECHANICAL- SOIL AND ROCK	Soil	Optimum Misture Content (OMC) by Heavy Compaction	IS 2720 (Part 8)
69	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content (OMC) by Ligth Compaction	IS 2720 (Part 7)

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70	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/Sec 1)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Dry density of soils in-place by the core cutter method	IS 2720 (Part 29)
2	MECHANICAL- SOIL AND ROCK	Soil	Dry density of soils in-place, by the sand replacement method	IS 2720 (Part 28)
3	MECHANICAL- SOIL AND ROCK	Soil	Load Test on soils (Plate Load Test)	IS 1888
4	MECHANICAL- SOIL AND ROCK	Soil	Standard Penetration Test (SPT) for soils	IS 2131