National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SATYA ASSOCIATES (MATERIAL TESTING LABORATORY), 37-6-4, SATYA NAGAR MK GARDENS, VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 11/02/2023 to 10/02/2025 **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	CHEMICAL- METALS & ALLOYS	MS / CS / LAS	Carbon	IS 8811
2	CHEMICAL- METALS & ALLOYS	MS / CS / LAS	Manganese	IS 8811
3	CHEMICAL- METALS & ALLOYS	MS / CS / LAS	Phosphorous	IS 8811
4	CHEMICAL- METALS & ALLOYS	MS / CS / LAS	Silicon	IS 8811
5	CHEMICAL- METALS & ALLOYS	MS / CS / LAS	Sulphur	IS 8811
6	MECHANICAL- BUILDINGS MATERIALS	Accelerated Strength Of concrete By boiling water method	Compressive Strength	IS:9013
7	MECHANICAL- BUILDINGS MATERIALS	Aerated Autoclaved cellular concrete products	Block Density(Dry)	IS 6441(Part I)
8	MECHANICAL- BUILDINGS MATERIALS	Aerated Autoclaved cellular concrete products	Compression strength	IS 6441(Part V)
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity at 135 degree celsius	IS 1206 (Part III)
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration at 25 degree celsius	IS 1203
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening point	IS 1205
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific gravity	IS 1202
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Bitumen Content	IRC SP 11
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Marshall flow	ASTM D 6927
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Marshall Stability	ASTM D 6927
17	MECHANICAL- BUILDINGS MATERIALS	Burnt clay Brick	Dimensions (Height)	IS 1077
18	MECHANICAL- BUILDINGS MATERIALS	Burnt clay Brick	Dimensions (Length)	IS 1077

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19	MECHANICAL- BUILDINGS MATERIALS	Burnt clay Brick	Dimensions (width)	IS 1077
20	MECHANICAL- BUILDINGS MATERIALS	Burnt clay Brick/Fly Ash Brick	Efflorescence	IS 3495 (Part III)
21	MECHANICAL- BUILDINGS MATERIALS	Burnt clay Brick/Fly Ash Brick	Water Absorption	IS 3495 (Part II)
22	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks/Fly ash Bricks	Compressive strength	IS 3495 (Part I)
23	MECHANICAL- BUILDINGS MATERIALS	Burnt clay Hollow Bricks	Compressive Strength	IS 3952
24	MECHANICAL- BUILDINGS MATERIALS	Burnt clay Hollow Bricks	Water Absorption	IS 3952
25	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part VI)
26	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031(Part XI)
27	MECHANICAL- BUILDINGS MATERIALS	Cement	Final setting time	IS 4031 (Part V)
28	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine Air Permeability	IS 4031 (Part II)
29	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness By dry Sieving (90mic)	IS 4031 (Part I)
30	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial setting Time	IS 4031 (Part V)
31	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness By Le-Chatelier	IS 4031 (part III)
32	MECHANICAL- BUILDINGS MATERIALS	Cement	Standard Consistency	IS 4031(Part IV)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk density (Rodded)	IS 2386 (Part III)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Values	IS 2386 (Part IV)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk density (Loose)	IS 2386(Part III)
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part IV)
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation index	IS 2386 (Part I)

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38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part I)
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part IV)
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion (1.7mm)	IS 2386 (Part IV)
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis 90 mm to 4.75 mm	IS 2386 (Part I)
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness (Magnesium Sulphate)	IS 2386 (Part V)
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part III)
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Stripping Value	IS 6241
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386 (Part III)
46	MECHANICAL- BUILDINGS MATERIALS	Concrete core	Compressive Strength	IS 516 (Part IV)
47	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516(Part1/section1)
48	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving block	Compressive Strength	IS 15658
49	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving block	Water Absorption	IS 15658
50	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Bulk Density (Rodded)	IS 2386 (Part III)
51	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Particles finer than 75 microns	IS 2386 (Part I)
52	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis 4.75 mm to 0.150 mm	IS 2386 (Part I)
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness (Magnesium Sulphate)	IS 2386 (Part V)
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part III)
55	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS 2386(Part III)
56	MECHANICAL- BUILDINGS MATERIALS	Fine aggregates	Bulk Density(Loose)	IS 2386 (Part III)

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57	MECHANICAL- BUILDINGS MATERIALS	Solid Concrete Block	Compressive Strength	IS 2185 (Part I)
58	MECHANICAL- BUILDINGS MATERIALS	Solid Concrete Block	Water absorption	IS 2185 (Part II)
59	MECHANICAL- BUILDINGS MATERIALS	Steel	0.2% Proof stress	IS 1608 (Part I)
60	MECHANICAL- BUILDINGS MATERIALS	Steel	Bend	IS 1599
61	MECHANICAL- BUILDINGS MATERIALS	Steel	Elongation	IS 1608 (Part I)
62	MECHANICAL- BUILDINGS MATERIALS	Steel	Rebend	IS 1786
63	MECHANICAL- BUILDINGS MATERIALS	Steel	Tensile Strength	IS 1608 (Part I)
64	MECHANICAL- BUILDINGS MATERIALS	Steel	Weight/Metre	IS 1786
65	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Apparent Porosity	IS 1124
66	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Apparent Specific Gravity	IS 1124
67	MECHANICAL- SOIL AND ROCK	Natural Building Stones	True Specific Gravity	IS 1122
68	MECHANICAL- SOIL AND ROCK	Natural Building Stones	Water Absorption	IS 1124
69	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143
70	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
71	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Angle of Internal Friction	IS 2720 (Part 13)
72	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Cohesion	IS 2720 (Part 13)
73	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720:(Part 40)
74	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis 37.5 mm to 0.075 mm	IS 2720 (Part IV)
75	MECHANICAL- SOIL AND ROCK	Soil	Grain size analysis by Hydrometer	IS 2720:(Part IV)

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76	MECHANICAL- SOIL AND ROCK	Soil	Specific gravity	IS 2720:(Part III/ Section - 1)
77	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Cohesion	IS 2720 (Part 11)
78	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression (Angle of Internal Friction)	IS 2720 (Part 11)
79	MECHANICAL- SOIL AND ROCK	Soil	Unconfined compression strength	IS:2720 (Part 10)
80	MECHANICAL- SOIL AND ROCK	Soil/Granular Sub Base	CBR(Soaked &Unsoaked)	IS 2720:(Part XVI)
81	MECHANICAL- SOIL AND ROCK	Soil/Granular Sub Base / Wet Mix Macadam / Blanket	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8)
82	MECHANICAL- SOIL AND ROCK	Soil/Granular Sub Base / Wet Mix Macadam / Blanket	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part 8)
83	MECHANICAL- SOIL AND ROCK	Soil/Granular Sub Base / Wet Mix Macadam / Blanket	Light Compaction - Optimum Moisture Content	IS 2720 (Part VII)
84	MECHANICAL- SOIL AND ROCK	Soil/Granular Sub Base / Wet Mix Macadam / Blanket	Light Compaction- Maximum Dry Density	IS 2720 (Part VII)
85	MECHANICAL- SOIL AND ROCK	Soil/Granular Sub Base / Wet Mix Macadam / Blanket	Liquid Limit by Mechanical Method	IS 2720 (Part V)
86	MECHANICAL- SOIL AND ROCK	Soil/Granular Sub Base / Wet Mix Macadam / Blanket	Plastic Limit	IS 2720 (Part V)
87	MECHANICAL- SOIL AND ROCK	Soil/Granular Sub Base / Wet Mix Macadam / Blanket	Water Content by Oven Drying Method	IS 2720 (Part II)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Field Density (by Sand Replacement Method)	IS 2720 (Part 28)
2	MECHANICAL- SOIL AND ROCK	Soil/Granular Sub Base / Blanket	Field Density(by Core Cutter Method)	IS 2720 (Part 29)
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	COVER METER	BS 1881 (Part 204)
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	HALF-CELL POTENTIAL	ASTM C876
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	REBOUND HAMMER	IS 516 (Part 5/Sec 4)
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	ULTRASONIC PULSE VELOCITY	IS 516 (Part 5 / Sec 1)
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforcement Concrete Structure	Carbonation Test	BSEN14630