National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, SUVADRA CONSULTANTS, PP-97, TANKAPANI ROAD, BHUBANESWAR, KHORDHA, ODISHA, 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	Steel (Reinforcement / Structural)	% Elongation	IS: 1608 (Part-I)
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility Test	IS: 1208
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS: 1209
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration Test	IS: 1203
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening point test	IS:1205
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS: 1202
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen Core	Marshall Flow	AASTHO T245
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen Core	Marshall Stability	AASTHO T245
9	MECHANICAL- BUILDINGS MATERIALS	Brick (Common Burnt Clay building Brick)	Compressive Strength	IS: 3495 (Part-I)
10	MECHANICAL- BUILDINGS MATERIALS	Brick (Common Burnt Clay building Brick)	Efflorescence	IS: 3495 (Part-III)
11	MECHANICAL- BUILDINGS MATERIALS	Brick (Common Burnt Clay building Brick)	Water Absorption	IS: 3495 (Part-II)
12	MECHANICAL- BUILDINGS MATERIALS	Bricks (Common Burnt clay building brick)	Dimension Thickness	IS: 1077
13	MECHANICAL- BUILDINGS MATERIALS	Bricks (Common Burnt clay building brick)	Dimensions Breadth	IS: 1077
14	MECHANICAL- BUILDINGS MATERIALS	Bricks (Common Burnt clay building brick)	Dimensions Length	IS: 1077
15	MECHANICAL- BUILDINGS MATERIALS	cement	Compressive Strength	IS: 4031 (Pt-6)
16	MECHANICAL- BUILDINGS MATERIALS	cement	Density	IS: 4031 (Pt-11)
17	MECHANICAL- BUILDINGS MATERIALS	cement	Final Setting Time	IS: 4031 (Part-5)
18	MECHANICAL- BUILDINGS MATERIALS	cement	Fineness by Blain’s air permeability	IS: 4031 (Pt-2)

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19	MECHANICAL- BUILDINGS MATERIALS	cement	Fineness by dry sieve (Residue)	IS: 4031 (Part-1)
20	MECHANICAL- BUILDINGS MATERIALS	cement	Initial Setting Time	IS: 4031 (Part-5)
21	MECHANICAL- BUILDINGS MATERIALS	cement	Normal consistency (Standard consistency)	IS: 4031 (Pt-4)
22	MECHANICAL- BUILDINGS MATERIALS	cement	Soundness (Auto clave method)	IS: 4031 (Part-3)
23	MECHANICAL- BUILDINGS MATERIALS	cement	Soundness (Le-Chatelier Method)	IS: 4031 (Pt-3)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS: 2386 (Part-IV)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS: 2386 (Part-IV)
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Los Angles Abrasion Value	IS: 2386 (Part-IV)
27	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS: 2386 (Part - III)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS: 2386 (Part-IV)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS: 2386 (Part-I)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS: 2386 (Part-I)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS: 2386 (Part-I)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS: 2386 (Part-III)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS: 2386 (Part-III)
34	MECHANICAL- BUILDINGS MATERIALS	Concrete (Beam)	Flexural Strength of Beam	IS: 516 (Part-I/Sec-I)
35	MECHANICAL- BUILDINGS MATERIALS	Concrete Block	Compressive Strength	IS: 2185 (Part-I)
36	MECHANICAL- BUILDINGS MATERIALS	Concrete Block	Density	IS: 2185 (Part-I)
37	MECHANICAL- BUILDINGS MATERIALS	Concrete Block	Water Absorption	IS: 2185 (Part-I)

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38	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS: 516 (Pat-I/Sec-I)
39	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Dimension Breadth	IS: 1237
40	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Dimension Width	IS: 1237
41	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Resistance to Wear	IS: 1237
42	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tile	Water Absorption	IS: 1237
43	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tiles	Dimensions Length	IS: 1237
44	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS: 2386 (Part-III)
45	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (0.1 micron to 100 mm)	IS: 2386 (Part-I)
46	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt Content	CPWD (Vol.- I)
47	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS: 2386 (Part-III)
48	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS: 2386 (Part-III)
49	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Dimensions Breadth	IS: 12894
50	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Dimensions Length	IS: 12894
51	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Dimensions Thickness	IS: 12894
52	MECHANICAL- BUILDINGS MATERIALS	Glazed/Ceramic Tile	Dimension Breadth	IS: 13630 (Part-I)
53	MECHANICAL- BUILDINGS MATERIALS	Glazed/Ceramic Tile	Dimension Length	IS: 13630 (Part I)
54	MECHANICAL- BUILDINGS MATERIALS	Glazed/Ceramic Tile	Dimension Thickness	IS: 13630 (Part-I)
55	MECHANICAL- BUILDINGS MATERIALS	Glazed/Ceramic Tile	Water Absorption	IS: 13630 (Part II)
56	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Abrasion Resistance	IS: 15658

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57	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS: 15658
58	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Flexural Strength	IS: 15658
59	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS: 15658
60	MECHANICAL- BUILDINGS MATERIALS	Pulvarized Fuel Ash-Lime Brick	Compressive Strength	IS: 3495 (Part-I)
61	MECHANICAL- BUILDINGS MATERIALS	Pulvarized Fuel Ash-Lime Brick	Efflorescence	IS: 3495 (Part-III)
62	MECHANICAL- BUILDINGS MATERIALS	Pulvarized Fuel Ash-Lime Brick	Water Absorption	IS: 3495 (Part-II)
63	MECHANICAL- BUILDINGS MATERIALS	Reinforcement (Steel)	Bend Test (Mandrel Dia: 12mm, 16 mm, 18 mm, 20 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 50 mm, 56 mm, 60 mm, 64 mm, 75 mm, 80 mm, 84 mm, 96 mm, 100 mm, 112 mm, 120 mm, 125 mm, 128 mm, 144 mm, 150 mm, 160 mm, 168 mm, 175 mm, 180 mm, 192 mm, 196 mm, 200 mm, 240 mm and 260 mm)	IS: 1599
64	MECHANICAL- BUILDINGS MATERIALS	Reinforcement (Steel)	Re-Bend Test (Mandrel Dia: 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 42 mm, 48 mm, 50 mm, 56 mm, 60 mm, 70 mm, 72 mm, 75 mm, 84 mm, 96 mm, 112 mm, 120 mm, 140 mm, 144 mm, 150 mm, 160 mm, 168 mm, 175 mm, 192 mm, 196 mm, 200 mm, 224 mm, 240 mm, 252 mm, 256 mm, 280 mm, 288 mm & 320 mm)	IS: 1786
65	MECHANICAL- BUILDINGS MATERIALS	Steel (Reinforcement / Structural)	Effective cross-sectional Area	IS: 1786
66	MECHANICAL- BUILDINGS MATERIALS	Steel (Reinforcement / Structural)	Ultimate Tensile Strength	IS: 1608 (Part-I)
67	MECHANICAL- BUILDINGS MATERIALS	Steel (Reinforcement / Structural)	Weight / meter	IS: 1786

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68	MECHANICAL- BUILDINGS MATERIALS	Steel (Reinforcement / Structural)	Yield Stress	IS: 1608 (Part-I)
69	MECHANICAL- BUILDINGS MATERIALS	Wood	Density	IS:1734(Part-I)
70	MECHANICAL- BUILDINGS MATERIALS	Wood	Moisture Content	IS:1708(Part-I)
71	MECHANICAL- SOIL AND ROCK	Rock	Dry/ Wet Density	IS: 13030
72	MECHANICAL- SOIL AND ROCK	Rock	Slake Durability Test	IS: 10050
73	MECHANICAL- SOIL AND ROCK	Rock	Specific gravity Test	IS:1124
74	MECHANICAL- SOIL AND ROCK	Rock	Un-Confined Compressive Strength	IS: 9143
75	MECHANICAL- SOIL AND ROCK	Rock	Water absorption Test	IS:1124
76	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression Test	IS: 2720 (Part-11)
77	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS: 2720 (Part-16)
78	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test	IS: 2720 (Part-15)
79	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test	IS: 2720 (Part-13)
80	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS: 2720 (Part-XL)
81	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS: 2720 (Part-4) Clause: 3.0
82	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS:2720 (Part-8)
83	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS:2720 (Part-8)
84	MECHANICAL- SOIL AND ROCK	soil	Liquid Limit	IS: 2720 (Part –5)
85	MECHANICAL- SOIL AND ROCK	soil	Liquid limit	IS: 2720 (Part-5)
86	MECHANICAL- SOIL AND ROCK	Soil	Permeability Test	IS: 2720 (Part-17)

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87	MECHANICAL- SOIL AND ROCK	soil	Plastic Limit	IS: 2720 (Part –5)
88	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS: 2720 (Part-5)
89	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS: 2720 (Part-VI)
90	MECHANICAL- SOIL AND ROCK	Soil	Sieve Analysis by Hydrometer Analysis	IS: 2720 (Part-IV)
91	MECHANICAL- SOIL AND ROCK	Soil	Sieve Analysis By Hydrometer Analysis	IS: 2720 (Part-IV)
92	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS: 2720 (Part-III) Sec.1/2
93	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS: 2720 (Part-III) Sec: 1/2
94	MECHANICAL- SOIL AND ROCK	Soil	Un-Confined Compression Test	IS: 2720 (Part-10)
95	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS: 2720 (Part-11)

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Site Facility				
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Rebound Hammer Test	IS:516 (Part-5/Sec 4)
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Ultrasonic Pulse Velocity Test	IS:516 (Part 5/Sec 1)