National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PRAJWALA CIVILS LAB & ENGINEERING, SAPPHIRE GARDENS, PHASE 1, SURVEY NO.23/5, DENKADA VILLAGE, VIZIANAGARAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9232 **Page No** 1 of 6

Validity 25/01/2023 to 24/01/2025 **Last Amended on** 19/04/2023

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	Bitumen / Bituminous Material	Absolute Viscosity at 60ºC	IS 1206 P2
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen / Bituminous Material	Ductility	IS 1208
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen / Bituminous Material	Flash Point & Fire point	IS 1209
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen / Bituminous Material	Kinematic Viscosity at 135 °C	IS 1206 P3
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen / Bituminous Material	Penetration Test at 25°C	IS 1203
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen / Bituminous Material	Softening Point	IS 1205
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen / Bituminous Material	Specific Gravity	IS 1202
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen emulsion	Residue by evaporation	IS 8887 (Annexure J)
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 Micron	IS 8887
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity by Say bolt Furol Viscometer	IS 3117 Annexure A
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen mix / core	Bitumen content	IRC SP 112
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen mix / core	Density	ASTM D 2726
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix / Core	Flow	ASTM D6927
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix / core	Marshal Stability	ASTM D6927
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix / core	Theoretical Maximum Specific Gravity	ASTM D2041
16	MECHANICAL- BUILDINGS MATERIALS	Building Bricks (Burnt Clay & Lime Pulverized Fuel ash)	Compressive strength	IS 3495 P 1
17	MECHANICAL- BUILDINGS MATERIALS	Building Bricks (Burnt Clay & Lime Pulverized Fuel ash)	Dimension (Height)	IS 1077
18	MECHANICAL- BUILDINGS MATERIALS	Building Bricks (Burnt Clay & Lime Pulverized Fuel ash)	Dimension (length)	IS 1077

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9232 **Page No** 2 of 6

Validity 25/01/2023 to 24/01/2025 **Last Amended on** 19/04/2023

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19	MECHANICAL- BUILDINGS MATERIALS	Building Bricks (Burnt Clay & Lime Pulverized Fuel ash)	Dimension (width)	IS 1077
20	MECHANICAL- BUILDINGS MATERIALS	Building Bricks (Burnt Clay & Lime Pulverized Fuel ash)	Efflorescence	IS 3495 P 3
21	MECHANICAL- BUILDINGS MATERIALS	Building Bricks (Burnt Clay & Lime Pulverized Fuel ash)	Water Absorption	IS 3495 P2
22	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Density (Specific Gravity)	IS 4031 P11
23	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Setting Time (Final)	IS 4031 (Pt5)
24	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Soundness (Le-chatelier method)	IS 4031 P3
25	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Standard Consistency	IS 4031(P-4)
26	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Blaines Air Permeability	IS 4031 (P-2)
27	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Compressive Strength (70.6 mm cube mould)	IS 4031 (Pt6)
28	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Fineness (By Dry Sieving)	IS 4031 P1
29	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Setting Time (Initial)	IS 4031(P-5)
30	MECHANICAL- BUILDINGS MATERIALS	Cement concrete flooring tiles	Water Absorption	IS 1237 (Annexure E)
31	MECHANICAL- BUILDINGS MATERIALS	Cement concrete flooring tiles	Dimension (Length, Breadth & Thickness)	IS 1237
32	MECHANICAL- BUILDINGS MATERIALS	Chequered cement concrete tiles	Dimension (Length, Breadth,Thickness)	IS 13801
33	MECHANICAL- BUILDINGS MATERIALS	Chequered cement concrete tiles	Water absorption	IS 13801 (Annexure E)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Rodded & Loose)	IS 2386 P3
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 P4
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 P1
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 P1

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9232 **Page No** 3 of 6

Validity 25/01/2023 to 24/01/2025 **Last Amended on** 19/04/2023

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38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 P4
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Test	IS: 2386 (Part-4),
40	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Sieve Analysis	IS 2386 P 1
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Material finer than 75 Micron	IS 2386 P1
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific gravity	IS 2386 P3
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Stripping value	IS 6241
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 P3
45	MECHANICAL- BUILDINGS MATERIALS	Concrete Mix	Workability by Slump test	IS 1199
46	MECHANICAL- BUILDINGS MATERIALS	Cube	Compressive strength by Accelerated Curing Method	IS 9103
47	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk Density (Rodded & Loose)	IS 2386 P3
48	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Materials finer than 75-micron	IS 2386 P1
49	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve analysis	IS 2386 P 1
50	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Silt Content	IS 2386 P2
51	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific gravity	IS 2386 P3
52	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Surface Moisture	IS 2386 P3
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 P3
54	MECHANICAL- BUILDINGS MATERIALS	Flay ash	Fineness (Blaine Air Permeability)	IS 1727
55	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Compressive strength	IS 1727
56	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Final setting time	IS 4031 P5

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9232 **Page No** 4 of 6

Validity 25/01/2023 to 24/01/2025 **Last Amended on** 19/04/2023

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57	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Initial setting time	IS 4031 P5
58	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Soundness (Le- Chatelier Method)	IS 1727
59	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific gravity	IS 1727
60	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete Mix	Density	IS 1199 P3
61	MECHANICAL- BUILDINGS MATERIALS	Ground Granulated Blast Furnace Slag (CGBS)	Fineness by Blaine Air permeability method	IS 4031 P2
62	MECHANICAL- BUILDINGS MATERIALS	Ground Granulated Blast Furnace Slag (CGBS)	Slag Activity Index / Compressive Strength	IS 4031 P6
63	MECHANICAL- BUILDINGS MATERIALS	Hardened concrete	Flexural Strength	IS: 516 P1 Section 1
64	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (15cm cube & Cores)	Compressive Strength	IS: 516 P1 Section 1
65	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete blocks	Block density	IS 2185 P1 (Annexure C)
66	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete blocks	Compressive Strength	IS 2185 P1 (Annexure D)
67	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete blocks	Dimensions	IS 2185 P1 (Annexure B)
68	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete blocks	Water absorption	IS 2185 P1 (Annexure E)
69	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen	Elastic Recovery at 15°C / 25°C	IS 15462
70	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen	Loss in heating	IS 1212
71	MECHANICAL- BUILDINGS MATERIALS	Paver blocks	Compressive strength	IS 15658 (Annexure D)
72	MECHANICAL- BUILDINGS MATERIALS	Paver blocks	Dimensions (Length, Width & Thickness)	IS 15658(Annexure B)
73	MECHANICAL- BUILDINGS MATERIALS	Paver blocks	Water absorption	IS 15658 (Annexure C)
74	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720 P16
75	MECHANICAL- SOIL AND ROCK	Soil	Direct shear test - Angular	IS 2720 P13

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9232 **Page No** 5 of 6

Validity 25/01/2023 to 24/01/2025 **Last Amended on** 19/04/2023

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76	MECHANICAL- SOIL AND ROCK	Soil	Direct shear test - Cohesion	IS 2720 P13
77	MECHANICAL- SOIL AND ROCK	Soil	Free swell index	IS 2720 P40
78	MECHANICAL- SOIL AND ROCK	Soil	Grain size Analysis - Hydrometer	IS 2720 P 4
79	MECHANICAL- SOIL AND ROCK	Soil	Grain size analysis (Wet sieving method)	IS 2720 P4
80	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Maximum Dry Density (MDD)	IS 2720 P8
81	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Optimum Moisture Content (OMC)	IS 2720 P8
82	MECHANICAL- SOIL AND ROCK	Soil	Light compaction - Maximum Dry Density (MDD)	IS 2720 P7
83	MECHANICAL- SOIL AND ROCK	Soil	Light compaction - Optimum Moisture Content (OMC)	IS 2720 P7
84	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit (Cone pentrometer)	IS 2720 P5
85	MECHANICAL- SOIL AND ROCK	Soil	Liquid limit (Casagrande method)	IS 2720 P5
86	MECHANICAL- SOIL AND ROCK	Soil	Plastic limit	IS 2720 P5
87	MECHANICAL- SOIL AND ROCK	Soil	Specific gravity (Fine, medium and coarse grained soils)	IS 2720- P3 (Section 1)
88	MECHANICAL- SOIL AND ROCK	Soil	Water content (Moisture) - Oven drying method	IS 2720 P2

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9232	**Page No**	6 of 6
Validity	25/01/2023 to 24/01/2025	**Last Amended on**	19/04/2023

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Dry density (Core cutter method)	IS 2720 P29
2	MECHANICAL- SOIL AND ROCK	Soil	Dry density (Sand replacement method)	IS 2720 P28