National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MARS ENVIRO RESEARCH & ENGINEERING SERVICES PVT. LTD., SURVEY NO. 171/1, GOTA - JAGATPUR ROAD, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 06/03/2023 to 05/03/2025 **Last Amended on** 16/03/2023

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	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103
3	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride ion Content	IS 6925
4	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC)	Calcium Oxide	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC)	Chloride	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC)	Ferric Oxide	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC)	Insoluble Residue	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC)	Loss on Ignition	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC)	Magnesium Oxide	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC)	Silica	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC)	Sulphuric Anhydride	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement(OPC, PPC)	Alumina	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Fly Ash	Chloride Content	IS 1727
16	CHEMICAL- BUILDING MATERIAL	Fly Ash	Combined Alumina and Ferric Oxide	IS 1727
17	CHEMICAL- BUILDING MATERIAL	Fly Ash	Loss on Ignition	IS 1727
18	CHEMICAL- BUILDING MATERIAL	Fly Ash	Magnesium Oxide	IS 1727

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19	CHEMICAL- BUILDING MATERIAL	Fly Ash	Silicon Dioxide	IS 1727
20	CHEMICAL- BUILDING MATERIAL	Fly Ash	Total Sulphur as So3	IS 1727
21	CHEMICAL- METALS & ALLOYS	Reinforcement Steel	Carbon	IS 228 (Part - 1)
22	CHEMICAL- METALS & ALLOYS	Reinforcement Steel	Phosphorous	IS 228-(Part-3)
23	CHEMICAL- METALS & ALLOYS	Reinforcement Steel	Sulphur	IS 228 (Part-9)
24	CHEMICAL- WATER	Construction Water	Acidity	IS 3025 (Part- 22)
25	CHEMICAL- WATER	Construction Water	Alkalinity	IS 3025 (Part-23)
26	CHEMICAL- WATER	Construction Water	Chloride	IS 3025 (Part-32)
27	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (Part- 18)
28	CHEMICAL- WATER	Construction Water	Organic Solids	IS 3025 (Part- 18)
29	CHEMICAL- WATER	Construction Water	pH Value	IS-3025 (Part- 11)
30	CHEMICAL- WATER	Construction Water	Sulphate	IS 3025 (Part- 24), Sec-1
31	CHEMICAL- WATER	Construction Water	Total Suspended Solids	IS 3025 (Part- 17)
32	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (Part 2)
33	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
34	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1206 (Part 3)
35	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1212
36	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
37	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
38	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
39	MECHANICAL- BUILDINGS MATERIALS	Bitumen mix	Binder Content	ASTM D 2172
40	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Density	ASTM D 2726

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41	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Flow Test	ASTM D 6927
42	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Marshall Stability	ASTM D 6927
43	MECHANICAL- BUILDINGS MATERIALS	Brick (Fly Ash Brick, Burnt Clay Brick and Non modular Brick)	Compressive Strength	IS 3495 (Part- 1)
44	MECHANICAL- BUILDINGS MATERIALS	Brick (Fly Ash Brick, Burnt Clay Brick and Non modular Brick)	Dimension (Height)	IS 1077
45	MECHANICAL- BUILDINGS MATERIALS	Brick (Fly Ash Brick, Burnt Clay Brick and Non modular Brick)	Dimension (Length)	IS 1077
46	MECHANICAL- BUILDINGS MATERIALS	Brick (Fly Ash Brick, Burnt Clay Brick and Non modular Brick)	Dimension (Width)	IS 1077
47	MECHANICAL- BUILDINGS MATERIALS	Brick (Fly Ash Brick, Burnt Clay Brick and Non modular Brick)	Efflorescence	IS 3495 (Part- 3)
48	MECHANICAL- BUILDINGS MATERIALS	Brick (Fly Ash Brick, Burnt Clay Brick and Non modular Brick)	Water Absorption	IS 3495 (Part- 2)
49	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC)	Fineness by Dry Sieving	IS 4031 (Part- 1)
50	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC)	Compressive Strength	IS 4031 (Part- 6)
51	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC)	Consistency	IS 4031 (Part- 4)
52	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC)	Final Setting Time	IS 4031 (Part- 5)
53	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC)	Fineness by Blain Air Permeability	IS 4031 (Part- 2)
54	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC)	Initial Setting Time	IS 4031 (Part- 5)
55	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC, PPC)	Soundness by Le- Chateliers Methods	IS 4031 (Part- 3)
56	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part- 4)
57	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4)
58	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part- 1)
59	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part- 1)

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60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Gradation (Sieve Analysis 2.36 mm to 125 mm)	IS 2386 (Part- 1)
61	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386 (Part- 4)
62	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Sodium Sulfate	IS 2386 (Part- 5)
63	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part- 3)
64	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part-3)
65	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516
66	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Fineness Modules	IS 2386(Part-1)
67	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Gradation (Sieve analysis – 0.075 to 10 mm sieve size)	IS 2386 (Part- 1)
68	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt Content	IS 2386 (Part- 1)
69	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part- 3)
70	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (Part- 3)
71	MECHANICAL- BUILDINGS MATERIALS	Flexural Beam	Flexural Strength of Beam	IS 516
72	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Residue on 45 micron	IS 1727
73	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific Gravity	IS 4031 Part-11
74	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658
75	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
76	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular(Aerated) Concrete Blocks	Compressive Strength	IS 6441(Part-5)
77	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular(Aerated) Concrete Blocks	Density	IS 6441 (Part-1)
78	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular(Aerated) Concrete Blocks	Dimension(Height)	IS 2185(Part-3)

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79	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular(Aerated) Concrete Blocks	Dimension(Width)	IS 2185(Part-3)
80	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular(Aerated) Concrete Blocks	Dimensions(Length)	IS 2185(Part-3)
81	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Re-Bend Test (Mandrel Dia-40,50,84,112,140,175,224 mm)	IS 1786
82	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Bend Test- (Mandrel Dia-24,30,32,36,40,48,60,64,80,100,125,128,160 mm)	IS 1599
83	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Elongation	IS 1608 (Part-1)
84	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Mass	IS 1786
85	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Ultimate Tensile Strength	IS 1608 (Part-1)
86	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Yield Stress	IS 1608(Part-1)
87	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part- 8)
88	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 (Part- 7)
89	MECHANICAL- SOIL AND ROCK	Soil	Permeability (Constant Head)	IS 2720 (Part- 17)
90	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (Part- 10)
91	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
92	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test	IS 2720 (Part- 15)
93	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (C)	IS 2720 (Part- 13)
94	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (Ø)	IS 2720 (Part- 13)
95	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part- 40)
96	MECHANICAL- SOIL AND ROCK	Soil	Gradation	IS 2720 (Part- 4)

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97	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (Part- 8)
98	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS 2720 (Part- 7)
99	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part- 5)
100	MECHANICAL- SOIL AND ROCK	Soil	Permeability (Falling Head)	IS 2720 (Part- 17)
101	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part- 5)
102	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part- 6)
103	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part- 3, Sec.1)
104	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part- 41)
105	MECHANICAL- SOIL AND ROCK	Soil	Tri-Axial Shear (C)	IS 2720 (Part- 11)
106	MECHANICAL- SOIL AND ROCK	Soil	Tri-Axial Shear (Ø)	IS 2720 (Part- 11)