National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : JEMS MULTI TECH CONSULTANCY, PLOT NO.243/A, DEDIYASAN GIDC, PHASE-II, MEHSANA, GUJARAT, 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	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride Content	IS 6925
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	pH value	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Cement	Aluminum Oxide	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement	Calcium Oxide	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement	Chloride	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement	Insoluble Residue	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement	Iron Oxide	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement	Loss on Ignition	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement	Magnesium Oxide	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement	Potassium as K2O	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement	Silica	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Cement	Sodium as Na2O	IS 4032
16	CHEMICAL- BUILDING MATERIAL	Cement	Sulphuric Anhydride	IS 4032
17	CHEMICAL- BUILDING MATERIAL	Fly ash	Chloride	IS 1727
18	CHEMICAL- BUILDING MATERIAL	Fly Ash	Combined Alumina and Ferric Oxide	IS 1727

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19	CHEMICAL- BUILDING MATERIAL	Fly ash	Loss on Ignition	IS 1727
20	CHEMICAL- BUILDING MATERIAL	Fly ash	Magnesium Oxide	IS 1727
21	CHEMICAL- BUILDING MATERIAL	Fly ash	Silica	IS 1727
22	CHEMICAL- BUILDING MATERIAL	Fly ash	Total Sulphur as SO3	IS 1727
23	CHEMICAL- METALS & ALLOYS	Steel and Metal testing	Carbon	IS 228 P-1
24	CHEMICAL- METALS & ALLOYS	Steel and Metal testing	Manganese	IS 228 P-2
25	CHEMICAL- METALS & ALLOYS	Steel and Metal testing	Phosphorous	IS 228 P-3
26	CHEMICAL- METALS & ALLOYS	Steel and Metal Testing	Silicon	IS 228 P-8
27	CHEMICAL- METALS & ALLOYS	Steel and Metal Testing	Sulphur	IS 228 P-9
28	CHEMICAL- WATER	Water	Acidity as NaOH	IS 3025 P-22
29	CHEMICAL- WATER	Water	Alkalinity as H2SO4	IS 3025 P-23
30	CHEMICAL- WATER	Water	Chlorides as Cl	IS 3025 P-32
31	CHEMICAL- WATER	Water	Inorganic Solids	IS 3025 P-18
32	CHEMICAL- WATER	Water	Organic Solids	IS 3025 P-18
33	CHEMICAL- WATER	Water	pH Test	IS 3025 P-11
34	CHEMICAL- WATER	Water	Sulphates as SO3	IS 3025 P-24
35	CHEMICAL- WATER	Water	Total Suspended matter	IS 3025 P-17
36	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206
37	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Binder content	ASTM D 2172
38	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Compacted density of mix	ASTM D 2726
39	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
40	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Fire Point	IS 1209

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41	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash point	IS 1209
42	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flow test	ASTM D 6927
43	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1206
44	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on heating	IS 1212
45	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Marshall Stability	ASTM D 6927
46	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration test	IS 1203
47	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening point	IS 1205
48	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific gravity	IS 1202
49	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures	ASTM D2041/D2041M - 11
50	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive strength	IS 3495 Part–1
51	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Height)	IS 1077
52	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Length)	IS 1077
53	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Width)	IS 1077
54	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 Part–3
55	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water absorption	IS 3495 Part–2
56	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive strength	IS 4031 Part – 6
57	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 Part – 4
58	MECHANICAL- BUILDINGS MATERIALS	Cement	Determination of Density	IS 4031 Part – 11

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59	MECHANICAL- BUILDINGS MATERIALS	Cement	Final setting time	IS 4031 Part – 5
60	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine air permeability	IS 4031 Part – 2
61	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by dry sieving	IS 4031 Part – 1
62	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial setting time	IS 4031 Part – 5
63	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le–chatelier methods	IS 4031 Part – 3
64	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 Part–4
65	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 Part-3
66	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing value	IS 2386 Part–4,
67	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 Part–1
68	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 Part–1
69	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386 Part–4
70	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles abrasion value	IS 2386 Part–4
71	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness	IS 2386 Part–5
72	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Stripping Value	IS 6241
73	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386 Part–3,
74	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve analysis (90 mm to 4.75 mm Sieve)	IS 2386 Part–1
75	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific gravity	IS 2386 Part–3
76	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive strength	IS 516
77	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural strength of beam	IS 516

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78	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver blocks	Compressive strength	IS 15658
79	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver blocks	Water absorption	IS 15658
80	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve analysis (10 mm to 150 microns)	IS 2386 Part–1
81	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	% finer than 75 micron	IS 2386 Part–1
82	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific gravity	IS 2386 Part–3
83	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	water absorption	IS 2386 Part–3
84	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk Density	IS 2386 Part-3
85	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump	IS 1199
86	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement steel	Bend Test	IS 1599
87	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement steel	Cross section area	IS 1786
88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement steel	Elongation	IS 1608 P-1
89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement steel	Nominal mass/meter	IS 1786
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement steel	Re-bend Test	IS 1786
91	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement steel	Ultimate Tensile Strength	IS 1608 P-1
92	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement steel	Yield stress	IS 1608 P-1
93	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's limit (LL)	IS 2720 Part–5 by Cone Penetrometer

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94	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's limit (PL)	IS 2720 Part–5
95	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 Part–16
96	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (cc)	IS 2720 Part-15
97	MECHANICAL- SOIL AND ROCK	Soil	Direct shear (for soil up to 4.75 mm) sieve size (C)	IS 2720 Part–13
98	MECHANICAL- SOIL AND ROCK	Soil	Direct shear (for soil up to 4.75 mm) sieve size (Ø)	IS 2720 Part–13
99	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 Part–40
100	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (40 mm to 75 / 63 microns Sieve)	IS 2720 Part–4
101	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 Part–8
102	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 Part–8
103	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS 2720 Part–7
104	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 Part-7
105	MECHANICAL- SOIL AND ROCK	Soil	Permeability (C.H)	IS 2720 Part–17
106	MECHANICAL- SOIL AND ROCK	Soil	Permeability (F.H)	IS 2720 Part–17
107	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 Part–6
108	MECHANICAL- SOIL AND ROCK	Soil	Specific gravity	IS 2720 Part–3
109	MECHANICAL- SOIL AND ROCK	Soil	Swelling pressure	IS 2720 Part–41
110	MECHANICAL- SOIL AND ROCK	Soil	Tri Axial Shear Strength (CU) (C)	IS 2720 Part - 12
111	MECHANICAL- SOIL AND ROCK	Soil	Tri- Axial Shear Strength (CU) (Ø)	IS 2720 Part 12

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112	MECHANICAL- SOIL AND ROCK	Soil	Tri Axial Shear Strength (UU-without measurement of pore water pressure) (C)	IS 2720 Part-11
113	MECHANICAL- SOIL AND ROCK	Soil	Tri- Axial Shear Strength (UU-without measurement of pore water pressure) (Ø)	IS 2720 Part-11
114	MECHANICAL- SOIL AND ROCK	Soil	Unconfined compressive strength	IS 2720 Part–10

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Site Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Bituminous Roads	Benkelman Beam Deflection	IRC 81
2	MECHANICAL- SOIL AND ROCK	Soil	Field density and Moisture Content by Core method (FDD)	IS 2720 Part-29
3	MECHANICAL- SOIL AND ROCK	Soil	Field density and Moisture Content by Core method (FMC)	IS 2720 Part-2
4	MECHANICAL- SOIL AND ROCK	Soil	Field density and Moisture Content by sand Replacement method (FDD)	IS 2720 Part-28
5	MECHANICAL- SOIL AND ROCK	Soil	Field density and Moisture Content by sand Replacement method (FMC)	IS 2720 Part-2
6	MECHANICAL- SOIL AND ROCK	Soil and Rock	Standard Penetration Test (30 cm penetration)	IS 2131