National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ME TESTING AND CALIBRATION LABORATORY, HARBANSWALA, TELPUR CHOWK, SHIMLA BYPASS ROAD, DEHRADUN, UTTARAKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 03/04/2022 to 02/04/2024 **Last Amended on** 29/05/2022

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 (Clause 4.0)
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	Aggregate	Acid Soluble Sulphate	BS 812 (Part - 118)
7	CHEMICAL- BUILDING MATERIAL	Aggregates	Acid Soluble Chloride	BS 812 (Part - 117)
8	CHEMICAL- BUILDING MATERIAL	Cement	Loss on Ignition	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Alumina (as Al2O3)	IS 4032 (Clause 4.6.1)
10	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Calcium Oxide (as CaO)	IS 4032 (Clause 4.7.2)
11	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Chloride (as Cl)	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Insoluble Residue	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Iron Oxides (as Fe2O3)	IS 4032 (Clause 4.5.2) EDTA method
14	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Magnesia (as MgO)	IS 4032 (Clause 4.8.2)
15	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Silica (as SiO2)	IS 4032
16	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Sulphuric Anhydride (as SO3)	IS 4032
17	CHEMICAL- BUILDING MATERIAL	Fly ash	Alumina + Iron Oxide (as Al2O3+Fe2O3)	IS 1727
18	CHEMICAL- BUILDING MATERIAL	Fly ash	Loss on Ignition	IS 1727

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19	CHEMICAL- BUILDING MATERIAL	Fly ash	Magnesia (as MgO)	IS 1727
20	CHEMICAL- BUILDING MATERIAL	Fly ash	Silica Content (SiO2)	IS 1727
21	CHEMICAL- BUILDING MATERIAL	Fly ash	Sulphuric Trioxide (as SO3)	IS 1727
22	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Aluminium Section	Anodic Coating	IS 5523
23	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	GI Sheet/Pipe/Wire	Mass of Zinc Coating	IS 6745
24	CHEMICAL- METALS & ALLOYS	Steel	Carbon	IS 228 (Part-1)
25	CHEMICAL- METALS & ALLOYS	Steel	Manganese	IS 228 (Part-2)
26	CHEMICAL- METALS & ALLOYS	Steel	Phosphorous (as P)	IS 228 (Part-3)
27	CHEMICAL- METALS & ALLOYS	Steel	Silicon (as Si)	IS 228 (Part-8)
28	CHEMICAL- METALS & ALLOYS	Steel	Sulphur	IS 228 (Part-9)
29	CHEMICAL- WATER	Construction Water	Acidity (ml of 0.02N NaOH consumed to neutralize 100ml of water using Phenolphthalein as indicator)	IS 3025 (Part 22)
30	CHEMICAL- WATER	Construction Water	Alkalinity (ml of 0.02N H2SO4 consumed to neutralize 100ml of water using Mixed Indicator)	IS 3025 (Part-23)
31	CHEMICAL- WATER	Construction Water	Chloride content as Cl	IS 3025 (Part-32)
32	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (Part-18)
33	CHEMICAL- WATER	Construction Water	Organic Solids	IS 3025 (Part-18)
34	CHEMICAL- WATER	Construction Water	pH value	IS 3025 (Part-11)
35	CHEMICAL- WATER	Construction Water	Sulphate content as SO3	IS 3025 (Part-24)
36	CHEMICAL- WATER	Construction Water	Total Suspended Solids	IS 3025 (Part-17)
37	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 (Part-40)
38	CHEMICAL- WATER	Drinking Water	Chloride as Cl	IS 3025 (Part-32)

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39	CHEMICAL- WATER	Drinking Water	Fluoride as F	IS 3025 (Part-60)
40	CHEMICAL- WATER	Drinking Water	Hardness as CaCO3	IS 3025 (Part-21)
41	CHEMICAL- WATER	Drinking Water	Iron as Fe	IS 3025 (Part-53)
42	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	IS 3025 (Part-46)
43	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part-5)
44	CHEMICAL- WATER	Drinking Water	pH Value	IS 3025 (Part-11)
45	CHEMICAL- WATER	Drinking Water	Phosphate (as P)	IS 3025 (Part-31)
46	CHEMICAL- WATER	Drinking Water	Potassium as K	IS 3025 (Part-45)
47	CHEMICAL- WATER	Drinking Water	Sodium as Na	IS 3025 (Part-45)
48	CHEMICAL- WATER	Drinking Water	Sulphate as SO4	IS 3025 (Part-24)
49	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO3	IS 3025 (Part-23)
50	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part-16)
51	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 (Part-15)
52	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part-10)
53	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	10% Fine Value	IS 2386 (Part 4)
54	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Bulk Density	IS 2386 (Part -3)
55	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Crushing Value	IS 2386 (Part-1)
56	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Moisture Content	IS 2386 (Part - 3)
57	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Sieve Analysis (Sieve Size: 2.36 mm to 100 mm)	IS 2386 (Part-1)
58	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Soundness	IS 2386 (Part-5)
59	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Specific Gravity	IS 2386 (Part-3)
60	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Total Deleterious Material (i) Material Finer Than 75 Micron	IS 2386 (Part 1&2)
61	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Total Deleterious Material (ii) Coal & Lignite	IS 2386 (Part 1&2)
62	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Total Deleterious Material (iii) Clay Lumps	IS 2386 (Part 1& 2)

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63	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)/ GSB/WMM/WBM/CRM	Impact Value	IS 2386 (Part - 4)
64	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)/ GSB/WMM/WBM/CRM	Water Absorption	IS 2386 (Part-3)
65	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)/ WMM/WBM/CRM	Elongation Index	IS 2386 (Part-1)
66	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)/ WMM/WBM/CRM	Flakiness Index	IS 2386 (Part-1)
67	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)/ WMM/WBM/CRM	Los Angeles Abrasion Value	IS 2386 (Part-4)
68	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Bulk Density	IS 2386 (Part 3)
69	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Bulking of Sand	IS 2386 (Part-3)
70	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Organic Impurities	IS 2386 (Part 2)
71	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Sieve Analysis (Sieve Size: 0.075 mm to 10 mm)	IS 2386 (Part -1)
72	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Silt Content	IS 2386 (Part-1)
73	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Soundness	IS 2386 (Part-5)
74	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Specific Gravity	IS 2386 (Part - 3)
75	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Total Deleterious Material 1. Material Finer than 75 Micron	IS 2386 (Part 1&2)
76	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Total Deletrious Material (ii) Coal & Lignite	IS 2386 (Part-1 & 2)
77	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Total Deletrious Material (iii) Clay Lumps	IS 2386 (Part 1 & 2)
78	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Water absorption	IS 2386 (Part - 3)
79	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point & Fire Point	IS 1448 (Part 69)
80	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
81	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205

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82	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix BM, SDBC, DBM, BC	Bitumen Content	IRC SP-11
83	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix BM, SDBC, DBM, BC	Marshal Stability	MS -2
84	MECHANICAL- BUILDINGS MATERIALS	Brick	Compressive Strength	IS 3495 (Part-1)
85	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension (Height)	IS 1077
86	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension (Length)	IS 1077
87	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension (width)	IS 1077
88	MECHANICAL- BUILDINGS MATERIALS	Brick	Efflorescence	IS 3495 (Part 3)
89	MECHANICAL- BUILDINGS MATERIALS	Brick	Water Absorption	IS 3495 (Part-2)
90	MECHANICAL- BUILDINGS MATERIALS	Cement OPC/PPC	Compressive Strength	IS 4031 (Part-6)
91	MECHANICAL- BUILDINGS MATERIALS	Cement OPC/PPC	Density	IS 4031 (Part-6)
92	MECHANICAL- BUILDINGS MATERIALS	Cement OPC/PPC	Fineness by Blain's air Permeability	IS 4031 (Part-2)
93	MECHANICAL- BUILDINGS MATERIALS	Cement OPC/PPC	Normal Consistency	IS 4031 (Part-4)
94	MECHANICAL- BUILDINGS MATERIALS	Cement OPC/PPC	Setting Time Final	IS 4031 (Part-5)
95	MECHANICAL- BUILDINGS MATERIALS	Cement OPC/PPC	Setting Time Initial	IS 4031 (Part-3)
96	MECHANICAL- BUILDINGS MATERIALS	Cement OPC/PPC	Soundness by Le Chatelier Method	IS 4031 (Part -3)
97	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimension	IS 15622
98	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	MOR	IS 13630 (Part -6)
99	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Scratch Hardness by Moh's Scale	IS 13630 (Part-13)
100	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Water Absorption	IS 13630 (Part-2)

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101	MECHANICAL- BUILDINGS MATERIALS	Concrete	Water Permeability	DIN 1048 (Part-5)
102	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Compressive Strength	IS 15658
103	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Water Absorption	IS 15658
104	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Compressive strength	IS 1727
105	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Density	IS 1727
106	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness (Sieving) 45 Mics	IS 1727
107	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness by Blain air Permeability	IS 1727
108	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Lime Reactivity	IS 1727
109	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Workability by Slump	IS 1199 & IS 10262
110	MECHANICAL- BUILDINGS MATERIALS	Mitumen Mix BM, SDBC, DBM, BC	Density	MS -2
111	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel, Structural Steel	Bend Test (Mandrel Diameter: 32,40,48,64,80,125,140,160 in mm)	IS 1599
112	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel, Structural Steel	Elongation %	IS 1608 Part -1
113	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel, Structural Steel	Mass per Meter	IS 1786
114	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel, Structural Steel	Re Bend Test (Mandrel Diameter: 60,96,128,160,200,224,256 in mm)	IS 1786
115	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel, Structural Steel	Ultimate Tensile Strength	IS 1608 Part-1
116	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel, Structural Steel	Yield Stress	IS 1608 (Part -1)
117	MECHANICAL- SOIL AND ROCK	Natural Building Stone/ Marble/ Granite	Compressive Strength	IS 1121 (Part- 1)
118	MECHANICAL- SOIL AND ROCK	Natural Building Stone/ Marble/ Granite	Specific Gravity	IS 1122 (Part-1)

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119	MECHANICAL- SOIL AND ROCK	Natural Building Stone/ Marble/ Granite	Water Absorption	IS 1124 (Part-1)
120	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
121	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM/CRM	California Bearing Ratio	IS 2720 (Part-16)
122	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM/CRM	Grain Size Analysis (Sieve Size: 0.075 mm, 0.425 mm, 2 mm, 4.75 mm, 19 mm, 75 mm, 100 mm)	IS 2720 (Part-4)
123	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM/CRM	Liquid Limit	IS 2720 (Part 5)
124	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM/CRM	Maximum Dry Density	IS 2720 (Part-8)
125	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM/CRM	Optimum Moisture Content	IS 2720 (Part- 8)
126	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM/CRM	Plastic Limit	IS 2720 (Part- 5)
127	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM/CRM	Specific Gravity	IS 2720 (Part- 7)
128	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM/CRM	Water Content	IS 2720 (Part-2)