National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PARMAR TESTING LAB AND RESEARCH CENTRE, DOON UNIVERSITY ROAD, MOTHROWALA, DEHRADUN, UTTARAKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 01/05/2023 to 30/04/2025 **Last Amended on** -

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	Cement (OPC/PPC)	Alumina (Al2O3)	IS 4032
2	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Calcium Oxide (CaO)	IS 4032
3	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Chloride as Cl	IS 4032
4	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Insoluble Residue	IS 4032
5	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Iron Oxide (Fe2O3)	IS 4032
6	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Loss Of Ignition	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Magnesia (MgO)	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Silica (SiO2)	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC)	Total Sulfur (SO3)	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Chemical Admixture	Ash Content	IS 9103
11	CHEMICAL- BUILDING MATERIAL	Chemical Admixture	Chloride Content	IS 6925
12	CHEMICAL- BUILDING MATERIAL	Chemical Admixture	Dry Material Content	IS 9103
13	CHEMICAL- BUILDING MATERIAL	Chemical Admixture	pH	IS 9103
14	CHEMICAL- BUILDING MATERIAL	Chemical Admixture	Relative Density	IS 9103
15	CHEMICAL- BUILDING MATERIAL	Fly Ash	Lime As CaO	IS 1727
16	CHEMICAL- BUILDING MATERIAL	Fly Ash	Loss On Ignition	IS 1727
17	CHEMICAL- BUILDING MATERIAL	Fly Ash	Magnesia (MgO)	IS 1727
18	CHEMICAL- BUILDING MATERIAL	Fly Ash	Mixed Oxide (Fe2O3+Al2O3)	IS 1727

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19	CHEMICAL- BUILDING MATERIAL	Fly Ash	Silica Content (SiO2)	IS 1727
20	CHEMICAL- BUILDING MATERIAL	Fly Ash	Sulphuric Anhydride (SO3)	IS 1727
21	CHEMICAL- METALS & ALLOYS	Carbon Steel	Manganese	IS 228 (Part 2)
22	CHEMICAL- METALS & ALLOYS	Carbon Steel	Phosphorous	IS 228 (Part 3)
23	CHEMICAL- METALS & ALLOYS	Carbon Steel	Silicon	IS 228 (Part 8)
24	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulfur	IS 228 (Part 9)
25	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 228 (Part 2)
26	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	IS 228 (Part 3)
27	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 (Part 8)
28	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulfur	IS 228 (Part 9)
29	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion RS-1, RS-2, MS, SS-1, SS-2	Residue by evaporation	IS 8887 Annexure-J
30	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Compressive Strength	IS 6441 (Part 5)
31	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Density	IS 6441 (Part 1)
32	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	10% Fines Value	IS 2386 (Part 4)
33	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Bulk Density	IS 2386 (Part 3)
34	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Crushing Value	IS 2386 (Part 4)
35	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Elongation Index	IS 2386 (Part 1)
36	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Flakiness Index	IS 2386 (Part 1)
37	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Impact Value	IS 2386 (Part 4)

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38	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Loss Angels Abrasion Test	IS 2386 (Part 4)
39	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Sieve Analysis (4.75mm to 80mm)	IS 2386 (Part 1)
40	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Specific gravity	IS 2386 (Part 3)
41	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Water Absorption	IS 2386 (Part 3)
42	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Bulk Density	IS 2386 (Part 3)
43	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Sieve Analysis (0.075mm to 10mm)	IS 2386 (Part 1)
44	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Specific Gravity	IS 2386 (Part 3)
45	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Water Absorption	IS 2386 (Part 3)
46	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute viscosity at 60°C, Poises	IS 1206 (Part 2)
47	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Binder Content	IRC SP 11
48	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
49	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Fire Point	IS 1209
50	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209
51	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flow Value	ASTM D6927
52	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic viscosity at 135°C	IS 1206 (Part 3)
53	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Marshal Stability	ASTM D6927
54	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
55	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
56	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202

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57	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion RS-1, RS-2, MS, SS-1, SS-2	Ductility at 27°C	IS 1208
58	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion RS-1, RS-2, MS, SS-1, SS-2	Residue on 600 micron IS Sieve	IS 8887 Annexure-B
59	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion RS-1, RS-2, MS, SS-1, SS-2	Storage stability after 24 h	IS 8887
60	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion RS-1, RS-2, MS, SS-1, SS-2	Penetration 25°C/100g/5 sec	IS 1203
61	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Theoretical Maximum Specific Gravity (Gmm)	ASTM D2041
62	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix BM, DBM, BC, SDBC, PC	Bitumen Content	IRC SP-11
63	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix BM, DBM, BC, SDBC, PC	Density	ASTM D2726
64	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ Flyash bricks	Compressive Strength	IS 3495 (Part 1)
65	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ Flyash bricks	Dimension	IS 1077
66	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ Flyash bricks	Efflorescence	IS 3495 (Part 3)
67	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ Flyash bricks	Water Absorption	IS 3495 (Part 2)
68	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part 6)
69	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Density	IS 4031 (Part 11)
70	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness By Blain's Air Permeability	IS 4031 (Part 2)
71	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Normal Consistency	IS 4031 (Part 4)
72	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Setting Time Final	IS 4031 (Part 5)
73	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Setting Time Initial	IS 4031 (Part 5)
74	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness By Le Chattelier Method	IS 4031 (Part 3)
75	MECHANICAL- BUILDINGS MATERIALS	Concrete Core/Concrete	Permeability Test	IRS CBC

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76	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Compressive Strength	IS 15658
77	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Length	IS 15658
78	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Thickness	IS 15658
79	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Thickness of Wearing layer	IS 15658
80	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Water Absorption	IS 15658
81	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Width	IS 15658
82	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Compressive Strength	IS 1727
83	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Density	IS 1727
84	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Fineness By Permeability Apparatus	IS 1727
85	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Retained On 45 µm	IS 1727
86	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Specific Gravity	IS 1727
87	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Compressive Strength By Accelerated Curing Method	IS 9013
88	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Workability By Slump	IS 1199 (Part 1)
89	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete/ Core/Cylinder/Beam	Compressive Strength	IS 516
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	DI Pipe	Barrel Wall Thickness, e	IS 8329
91	MECHANICAL- MECHANICAL PROPERTIES OF METALS	DI Pipe	External Diameter	IS 8329
92	MECHANICAL- MECHANICAL PROPERTIES OF METALS	DI Pipe	Nominal Diameter	IS 8329

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93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Steel Sheet (Plain And Corrugated/G.I. Wire/Pipe)	Mass of Zin Coating	IS 6745
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	GI Pipe/ MS Tube	Elongation	IS 1608 (Part 1)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	GI Pipe/ MS Tube	Mass	IS 1239 (Part 1)
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	GI Pipe/ MS Tube	Tensile Strength	IS 1608 (Part 1)
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	GI Pipe/ MS Tube	Thickness	IS 1239 (Part 1)
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement/Structural Steel/Copper/Aluminium Material/Welds & Welded Tests Specimens/M.S. Sheet/G.I. Sheet	Bend Test	IS 1599
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement/Structural Steel/Copper/Aluminium Material/Welds & Welded Tests Specimens/M.S. Sheet/G.I. Sheet	Elongation %	IS 1608 (Part 1)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement/Structural Steel/Copper/Aluminium Material/Welds & Welded Tests Specimens/M.S. Sheet/G.I. Sheet	Mass Per Meter	IS 1786
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement/Structural Steel/Copper/Aluminium Material/Welds & Welded Tests Specimens/M.S. Sheet/G.I. Sheet	Re-Bend Test	IS 1786
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement/Structural Steel/Copper/Aluminium Material/Welds & Welded Tests Specimens/M.S. Sheet/G.I. Sheet	Ultimate Tensile Strength	IS 1608 (Part 1)
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement/Structural Steel/Copper/Aluminium Material/Welds & Welded Tests Specimens/M.S. Sheet/G.I. Sheet	Yield Stress	IS 1608 (Part 1)
104	MECHANICAL- SOIL AND ROCK	Soil / Granular Sub Base / Wet Mix Macadam	California Bearing Ration (CBR)	IS 2720 (Part 16)
105	MECHANICAL- SOIL AND ROCK	Soil / Granular Sub Base / Wet Mix Macadam	Free Swell Index	IS 2720 (Part 40)
106	MECHANICAL- SOIL AND ROCK	Soil / Granular Sub Base / Wet Mix Macadam	Heavy/Light Compaction (MDD)	IS 2720 (Part 8)
107	MECHANICAL- SOIL AND ROCK	Soil / Granular Sub Base / Wet Mix Macadam	Heavy/Light Compaction (OMC)	IS 2720 (Part 8)

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108	MECHANICAL- SOIL AND ROCK	Soil / Granular Sub Base / Wet Mix Macadam	Liquid Limit (Casagrande Method)	IS 2720 (Part 5)
109	MECHANICAL- SOIL AND ROCK	Soil / Granular Sub Base / Wet Mix Macadam	Moisture Content	IS 2720 (Part 2)
110	MECHANICAL- SOIL AND ROCK	Soil / Granular Sub Base / Wet Mix Macadam	Plastic Limit	IS 2720 (Part 5)
111	MECHANICAL- SOIL AND ROCK	Soil / Granular Sub Base / Wet Mix Macadam	Sieve Analysis	IS 2720 (Part 4)
112	MECHANICAL- SOIL AND ROCK	Soil / Granular Sub Base / Wet Mix Macadam	Specific Gravity	IS 2720 (Part 3) (Section 1 and Section 2)
113	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM/WBM	Field Dry Density	IS 2720 (Part 28)
114	MECHANICAL- SOIL AND ROCK	SOIL/GSB/WMM/WBM	Field Moisture Content	IS 2720 (Part 28)