National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GLOBAL TESTING AND RESEARCH LABORATORY, PLOT NO. 594, MISSION GALI ROAD NO. 4, KANKE ROAD, RANCHI, JHARKHAND, 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	Cement (OPC/PPC/PSC)	Alkali Content as Na2O	IS 4032
2	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC/PSC)	Chloride	IS 4032
3	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC/PSC)	Insoluble Residue	IS 4032
4	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC/PSC)	Loss of Ignition (LOI)	IS 4032
5	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC/PSC)	Magnesia (MgO)	IS 4032
6	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PPC/PSC)	Sulphuric Anhydride (SO3)	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PSC)	Alumina (Al2O3)	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PSC)	Calcium Oxide (CaO)	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PSC)	Iron Oxide (Fe2O3)	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement (OPC/PSC)	Silica (SiO2)	IS 4031
11	CHEMICAL- METALS & ALLOYS	Carbon And Low Alloy Steel	Phosphorus	IS 228 (Part 3)
12	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Carbon	IS 228 (Part 1)
13	CHEMICAL- METALS & ALLOYS	Carbon and Low Alloy Steel	Sulphur	IS 228 (Part 9)
14	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Core	Compressive Strength	IS 516 (Part 4)
15	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Cube	Compressive Strength	IS 516 (Part 1, Section 1)
16	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension - Breadth	IS 1077
17	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension - Height	IS 1077
18	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension - Length	IS 1077

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19	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks/ Fly Ash/ Lime Bricks	Efflorescence	IS 3495 (Part 3)
20	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks/ Pulverized Fuel Fly Ash/ Lime Bricks	Compressive Strength	IS 3495 (Part 1)
21	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks/ Pulverized Fuel Fly Ash/ Lime Bricks	Water Absorption	IS 3495 (Part 2)
22	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Compressive Strength (72 Hrs,168 Hrs & 672 Hrs)	IS 4031 (Part 6)
23	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Density	IS 4031 (Part 11)
24	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Final Setting Time	IS 4031 (Part 5)
25	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Fineness by Blaine's Method	IS 4031 (Part 2)
26	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Initial Setting Time	IS 4031 (Part 5)
27	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Soundness by Le-Chatelier	IS 4031 (Part 3)
28	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC/PSC)	Standard Consistency	IS 4031 (Part 4)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS 2386 (Part 4)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material - 75 micron Finer Materials	IS 2386 (Part 1)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material - Clay Lumps	IS 2386 (Part 2)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material - Coal & Lignite	IS 2386 (Part 2)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (2.36 mm to 80 mm)	IS 2386 (Part 1)

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38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na2SO4	IS 2386 (Part 5)
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by MgSO4	IS 2386 (Part 5)
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Tens Percent Fines Value	IS 2386 (Part 4)
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
43	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
44	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious Material - 75 micron Finer Materials	IS 2386 (Part 1)
45	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious Material - Clay Lumps	IS 2386 (Part 2)
46	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious Material - Coal and Lignite	IS 2386 (Part 2)
47	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (0.15 mm to 10.0 mm)	IS 2386 (Part 1)
48	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt Content	CPWD Volume 1 Appendix - C
49	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Na2SO4	IS 2386 (Part 5)
50	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by MgSO4	IS 2386 (Part 5)
51	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
52	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
53	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Density	IS 1199 (Part 3)
54	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump Test	IS 1199 (Part 2)
55	MECHANICAL- BUILDINGS MATERIALS	GSB/ WMM	Elongation Index	IS 2386 (Part 1)
56	MECHANICAL- BUILDINGS MATERIALS	GSB/ WMM	Flakiness Index	IS 2386 (Part 1)

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57	MECHANICAL- BUILDINGS MATERIALS	GSB/ WMM	Gradation (75 micron to 125 mm)	IS 2386 (Part 1)
58	MECHANICAL- BUILDINGS MATERIALS	GSB/ WMM	Impact Value	IS 2386 (Part 4)
59	MECHANICAL- BUILDINGS MATERIALS	GSB/ WMM	Water Absorption	IS 2386 (Part 3)
60	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Split Tensile Strength	IS 516 (Part 1, Section 1)
61	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Core	Density	IS 516 (Part 2, Section 1)
62	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Cube	Density	IS 516 (Part 2, Section 1)
63	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658 Annex D
64	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension - Length	IS 15658 (Annex B)
65	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension - Thickness	IS 15658 (Annex B)
66	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension -Width	IS 15658 (Annex B)
67	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658 (Annex C)
68	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Fly Ash Bricks	Dimension - Breadth	IS 12894
69	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Fly Ash Bricks	Dimension - Height	IS 12894
70	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Fly Ash Bricks	Dimension - Length	IS 12894
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	7 Ply Strand for Pre - Stressed Concrete	Lay of Length	IS 14268
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	7 Ply Strand for Pre - Stressed Concrete	Mass per meter	IS 14268
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	7 Ply Strand for Pre - Stressed Concrete	Nominal Día of Strand	IS 14268

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74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	7 Ply Strand for Pre - Stressed Concrete	Percentage Difference between Centre Wire and Surrounding Wire	IS 14268
75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Bend Test	IS 1599
76	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Elongation	IS 1608 (Part 1)
77	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Mass per meter	IS 1786
78	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Re-bend Test	IS 1786
79	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Tensile Strength	IS 1608 (Part 1)
80	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield Stress	IS 1608 (Part 1)
81	MECHANICAL- SOIL AND ROCK	Bentonite	Density	IS 2911 (Part 1, Section 2), IS 2720 (Part 3, Section 1)
82	MECHANICAL- SOIL AND ROCK	Bentonite	Liquid Limit Test	IS 2720 (Part 5)
83	MECHANICAL- SOIL AND ROCK	Bentonite	Plastic Limit	IS 2720 (Part 5)
84	MECHANICAL- SOIL AND ROCK	Bentonite	Sand Content	IS 6186
85	MECHANICAL- SOIL AND ROCK	GSB/ WMM	California Bearing Ratio	IS 2720 (Part 16)
86	MECHANICAL- SOIL AND ROCK	GSB/ WMM	Liquid Limit	IS 2720 (Part 5)
87	MECHANICAL- SOIL AND ROCK	GSB/ WMM	Maximum Dry Density	IS 2720 (Part 8)
88	MECHANICAL- SOIL AND ROCK	GSB/ WMM	Optimum Moisture Content	IS 2720 (Part 8)
89	MECHANICAL- SOIL AND ROCK	GSB/ WMM	Plastic Limit	IS 2720 (Part 5)

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90	MECHANICAL- SOIL AND ROCK	Pond Ash	Heavy Compaction (MDD)	IRC SP 58, IS 2720 (Part 8)
91	MECHANICAL- SOIL AND ROCK	Pond Ash	Heavy Compaction (OMC)	IRC SP 58, IS 2720 (Part 8)
92	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (C.B.R.)	IS 2720 (Part 16)
93	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - Ø	IS 2720 (Part 13)
94	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion, C)	IS 2720 (Part 13)
95	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
96	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Wet Method) (4.75 mm to 0.075 mm)	IS 2720 (Part 4, Clause 4)
97	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis and Hydrometer Analysis (% of Clay) (0.075 mm to 19 mm)	IS 2720 (Part 4, Clause 5.2)
98	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
99	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2)
100	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
101	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3, Section 1 & 2)
102	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Test (UU) - (Angle Of Friction, Ø)	IS 2720 (Part 11)
103	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Test (UU) - C	IS 2720 (Part 11)
104	MECHANICAL- SOIL AND ROCK	Soil	Water Content - Dry Density relation using Heavy Compaction (MDD)	IS 2720 (Part 8)
105	MECHANICAL- SOIL AND ROCK	Soil	Water Content - Dry Density relation using Heavy Compaction (OMC)	IS 2720 (Part 8)
106	MECHANICAL- SOIL AND ROCK	Soil	Water Content - Dry Density relation using Light Compaction (MDD)	IS 2720 (Part 7)

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107	MECHANICAL- SOIL AND ROCK	Soil	Water Content - Dry Density relation using Light Compaction (OMC)	IS 2720 (Part 7)