National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GLOBAL LAB, 1073, LASHKAR HAT, WARD NO. 107, PICNIC GARDEN, KOLKATA, WEST BENGAL, 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	Coarse & Fine Aggregate	Chloride	BS EN 1744-1
2	CHEMICAL- BUILDING MATERIAL	Coarse & Fine Aggregate	Sulphate	BS EN 1744-1
3	CHEMICAL- BUILDING MATERIAL	Coarse & Fine Aggregate/ Rock	Alkali Aggregate Reactivity - Silica Released (SC)	IS 2386 (Part 7)
4	CHEMICAL- BUILDING MATERIAL	Coarse & Fine Aggregate/ Rock	Alkali Aggregate Reactivity - Reduction in Alkalinity (RC)	IS 2386 (Part 7)
5	CHEMICAL- BUILDING MATERIAL	Concrete Admixture/ Construction Chemical/ Water Proofing Compound	Soluble Chloride Content	IS 6925
6	CHEMICAL- BUILDING MATERIAL	Concrete Admixture/ Construction Chemical/ Water Proofing Compound/ Bonding Products	Ash Content	IS 9103
7	CHEMICAL- BUILDING MATERIAL	Concrete Admixture/ Construction Chemical/ Water Proofing Compound/ Bonding Products	Dry Material Content	IS 9103
8	CHEMICAL- BUILDING MATERIAL	Concrete Admixture/ Construction Chemical/ Waterproofing Compound/ Shuttering Oil	Relative Density	IS 9103
9	CHEMICAL- BUILDING MATERIAL	Construction Admixture/ Construction Chemical/ Water Proofing Compound	pH Value	IS 9103
10	CHEMICAL- BUILDING MATERIAL	Harden Concrete/ Mortar	Chloride	BS 1881 (Part 124)
11	CHEMICAL- BUILDING MATERIAL	Harden Concrete/ Mortar	Sulphate	BS 1881 (Part 124)
12	CHEMICAL- BUILDING MATERIAL	Hardened Concrete/ Mortar	pH Value	IS 2720 (Part 26)
13	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/ PPC/ PSC/ GGBS)	Chloride Content	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/ PPC/ PSC/ GGBS)	Loss on Ignition	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/ PPC/ PSC/ White Cement/ GGBS)	Alumina Content (Al_2O_3)	IS 4032
16	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/ PPC/ PSC/ White Cement/ GGBS)	Calcium Oxide (CaO)	IS 4032
17	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/ PPC/ PSC/ White Cement/ GGBS)	Insoluble Residue	IS 4032
18	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/ PPC/ PSC/ White Cement/ GGBS)	Iron Oxide Content (Fe_2O_3)	IS 4032

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19	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/ PPC/ PSC/ White Cement/ GGBS)	Sulphur Trioxide (SO3)	IS 4032
20	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/ PPC/ PSC/ White Cement/ GGBS/ Aggregate)	Magnesium Oxide (MgO)	IS 4032
21	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/ PPC/ PSC/ White Cement/ GGBS/ Aggregate)	Silica Content (SiO2)	IS 4032
22	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Carbon (C)	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Chromium (Cr)	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Copper (Cu)	ASTM E415
25	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Manganese (Mn)	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Nickel (Ni)	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Phosphorous (P)	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Silicon (Si)	ASTM E415
29	CHEMICAL- METALS & ALLOYS	Carbon Steel & Low Alloy Steel	Sulphur (S)	ASTM E415
30	CHEMICAL- WATER	Construction Water	Chloride Content	IS 3025 (Part 32)
31	CHEMICAL- WATER	Construction Water	Inorganic Impurities	IS 3025 (Part 18)
32	CHEMICAL- WATER	Construction Water	Organic Impurities	IS 3025 (Part 18)
33	CHEMICAL- WATER	Construction Water	pH Value	IS 3025 (Part 11)
34	CHEMICAL- WATER	Construction Water	Sulphate as SO3	IS 3025 (Part 24)
35	CHEMICAL- WATER	Construction Water	Total Suspended Solid	IS 3025 (Part 17)
36	CHEMICAL- WATER	Construction Water	Volume of 0.02N H2SO4 used for 100 ml Water (Alkalinity)	IS 3025 (Part 23)
37	CHEMICAL- WATER	Construction Water	Volume of 0.02N NaOH used for 100 ml Water (Acidity)	IS 3025 (Part 22)
38	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Compressive Strength	IS 6441 (Part 5)
39	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Dry Density	IS 6441 (Part 1)

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40	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Drying Shrinkage	IS 6441 (Part 2)
41	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Height	IS 2185 (Part 3)
42	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Length	IS 2185 (Part 3)
43	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Moisture Content	IS 6441 (Part 1)
44	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Width (Thickness)	IS 2185 (Part 3)
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10 % Fines Value	IS 2386 (Part 4)
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Crushing Value	IS 2386 (Part 4)
47	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS 2386 (Part 4)
48	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density - Loose	IS 2386 (Part 3)
49	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density - Rodded	IS 2386 (Part 3)
50	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Materials	IS 2386 (Part 1 & 2)
51	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness/ Elongation (Combined)	IS 2386 (Part 1)
52	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1)
53	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na2SO4 / MgSO4	IS 2386 (Part 5)
54	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
55	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 1)
56	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Height	IS 1077
57	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Length	IS 1077
58	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Width	IS 1077

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59	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks/ Pulverized Fuel Ash Bricks	Compressive Strength	IS 3495 (Part 1)
60	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks/ Pulverized Fuel Ash Bricks	Efflorescence	IS 3495 (Part 3)
61	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks/ Pulverized Fuel Ash Bricks	Water Absorption	IS 3495 (Part 2)
62	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Block	Compressive Strength	IS 15658
63	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Block	Flexural Strength	IS 15658
64	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Block	Water Absorption	IS 15658
65	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density - Loose	IS 2386 (Part 3)
66	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density - Rodded	IS 2386 (Part 3)
67	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious Materials	IS 2386 (Part 1 & 2)
68	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Particle Finer than 75 µm	IS 2386 (Part 1)
69	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1)
70	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Na2SO4/ MgSO4	IS 2386 (Part 5)
71	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
72	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
73	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Flexural Strength	IS 516
74	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Density Test	IS 516 (Part 2)
75	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Depth of Water Penetration under Pressure	IS 516 (Part 2)
76	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Cube/ Cylinder/ Core)	Compressive Strength	IS 516
77	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Core	Compressive Strength	IS 516 (Part 4)

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78	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement OPC- 33G, 43G, 53G/ PSC /PPC /GGBS /White Cement	Fineness by Blaine's Air Permeability	IS 4031 (Part 2)
79	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement OPC- 33G, 43G, 53G/ PSC/ PPC/ Cement Mortar/ Integral Water Proofing Compound/ Cement Base Wall Putty	Final Setting Time	IS 4031 (Part 5)
80	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement OPC- 33G, 43G, 53G/ PSC/ PPC/ Cement Mortar/ Integral Water Proofing Compound/ Cement Base Wall Putty	Compressive Strength	IS 4031 (Part 6)
81	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement OPC- 33G, 43G, 53G/ PSC/ PPC/ Cement Mortar/ Integral Water Proofing Compound/ Cement Base Wall Putty	Initial Setting Time	IS 4031 (Part 5)
82	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement OPC- 33G, 43G, 53G/ PSC/ PPC/ Cement Mortar/ Integral Water Proofing Compound/ Cement Base Wall Putty	Normal Consistency	IS 4031 (Part 4)
83	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement OPC- 33G, 43G, 53G/ PSC/ PPC/ White Cement	Density Test	IS 4031 (Part 11)
84	MECHANICAL- BUILDINGS MATERIALS	Hydraulic Cement OPC-33G,43G,53G/ PSC/ PPC	Soundness (Le-Chatelier Method)	IS 4031 (Part 3)
85	MECHANICAL- BUILDINGS MATERIALS	Pozzolanic Material	Fineness by Sieving	IS 1727
86	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material/ Steel/ Rebar	Bend Test	IS 1599
87	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material/ Steel/ Rebar	Mass Per Meter	IS 1786
88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material/ Steel/ Rebar	Re-bend Test	IS 1786
89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material/ Steel/ Rebar	Yield Strength/ 0.2% Proof Strength	IS 1608 (Part 1)
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material/ Steel/ Rebar/ Steel Coupler	Percentage Elongation after Fracture/ Percentage Elongation at Max Force	IS 1608 (Part 1)
91	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material/ Steel/ Rebar/ Steel Coupler	Tensile Strength	IS 1608 (Part 1)
92	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Prestress Wire Strand	% Difference in Diameters of Center Wire and Surrounding Wires	IS 14268

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93	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Prestress Wire Strand	Breaking Strength	IS 1608 (Part 1)
94	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Prestress Wire Strand	Nominal Area	IS 14268
95	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Prestress Wire Strand	Nominal Dia	IS 14268
96	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Prestress Wire Strand	Proof Load	IS 1608 (Part 1)
97	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Prestressed Wire Strand	% Elongation	IS 14268
98	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Prestressed Wire Strand	Length of Lay	IS 14268
99	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Prestressed Wire Strand	Mass per unit Length	IS 14268
100	MECHANICAL- SOIL AND ROCK	Soil/ Granular Material	Field Dry Density (by Core Cutter Method)	IS 2720 (Part 29)
101	MECHANICAL- SOIL AND ROCK	Soil/ Granular Material	Grain Size Analysis	IS 2720 (Part 4)
102	MECHANICAL- SOIL AND ROCK	Soil/ Granular Material/ Bentonite	Free Swell Index	IS 2720 (Part 40)
103	MECHANICAL- SOIL AND ROCK	Soil/ Granular Material/ GSB/ WMM/ WBM/ Blanket	California Bearing Ratio	IS 2720 (Part 16)
104	MECHANICAL- SOIL AND ROCK	Soil/ Granular Material/ GSB/ WMM/ WBM/ Blanket	Field Dry Density (by Sand Replacement Method)	IS 2720 (Part 28)
105	MECHANICAL- SOIL AND ROCK	Soil/ Granular Material/ GSB/ WMM/ WBM/ Blanket	Modified Proctor Density	IS 2720 (Part 8)
106	MECHANICAL- SOIL AND ROCK	Soil/ Granular Material/ GSB/ WMM/ WBM/ Blanket	Modified Proctor Test- Optimum Moisture	IS 2720 (Part 8)
107	MECHANICAL- SOIL AND ROCK	Soil/ Granular Material/ GSB/ WMM/ WBM/ Blanket	Plastic Limit/ Plasticity Index	IS 2720 (Part 5)
108	MECHANICAL- SOIL AND ROCK	Soil/ Granular Material/ GSB/ WMM/ WBM/ Blanket	Standard Proctor - Optimum Moisture	IS 2720 (Part 7)

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109	MECHANICAL- SOIL AND ROCK	Soil/ Granular Material/ GSB/ WMM/ WBM/ Blanket	Standard Proctor Density	IS 2720 (Part 7)
110	MECHANICAL- SOIL AND ROCK	Soil/ Granular Material/ GSB/ WMM/ WBM/ Blanket/ Bentonite	Liquid Limit	IS 2720 (Part 5)
111	MECHANICAL- SOIL AND ROCK	Soil/ Granular Material/ GSB/ WMM/ WBM/ Blanket/ Bentonite	Moisture Content	IS 2720 (Part 2)