



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

OMEGALAB TESTING SERVICES PRIVATE LIMITED (RANCHI), 2085/B, WARD NO. 19/4, BARIATU BASTI HILL VIEW ROAD, BARIATU, RANCHI, JHARKHAND, INDIA

Accreditation Standard

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Certificate Number

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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 Testing				
1	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ballast	Aggregate Impact Value	IS 2386 (Part 4)
2	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ballast	Los Angeles Abrasion Value	IS 2386 (Part 4)
3	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ballast	Sieve Analysis (65 mm to 20 mm)	IS 2386 (Part 1)
4	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ballast	Water Absorption	IS 2386 (Part 3)
5	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Blanketing Material	Los Angeles Abrasion Value	IS 2386 (Part 4)
6	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bricks (Common Burnt Clay Bricks / Burnt Clay Fly Ash Bricks / Pulverized Fuel Ash Lime Bricks / Pulverized Fuel Ash Cement Bricks)	Compressive Strength	IS 3495 (Part 1)
7	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bricks (Common Burnt Clay Bricks / Burnt Clay Fly Ash Bricks / Pulverized Fuel Ash Lime Bricks / Pulverized Fuel Ash Cement Bricks)	Efflorescence	IS 3495 (Part 3)



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8	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bricks (Common Burnt Clay Bricks / Burnt Clay Fly Ash Bricks / Pulverized Fuel Ash Lime Bricks / Pulverized Fuel Ash Cement Bricks)	Water Absorption	IS 3495 (Part 2)
9	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Fly Ash Bricks	Dimension - Height	IS 13757
10	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Fly Ash Bricks	Dimension - Length	IS 13757
11	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Fly Ash Bricks	Dimension - Width	IS 13757
12	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	10% Fines Value	IS 2386 (Part 4)
13	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Aggregate Impact Value	IS 2386 (Part 4)
14	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Bulk Density (Compacted)	IS 2386 (Part 3)



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15	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Bulk Density (Loose)	IS 2386 (Part 3)
16	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Clay Lumps	IS 2386 (Part 2)
17	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Coal & Lignite	IS 2386 (Part 2)
18	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Combined Flakiness & Elongation Index	IS 383
19	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Crushing Value	IS 2386 (Part 4)
20	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part 1)
21	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part 1)



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22	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Los Angeles Abrasion Value	IS 2386 (Part 4)
23	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Materials Finer than 75 microns	IS 2386 (Part 1)
24	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Sieve Analysis (80 mm to 2.36 mm)	IS 2386 (Part 1)
25	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Soundness	IS 2386 (Part 5) (by MgSO ₄)
26	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Soundness	IS 2386 (Part 5) (by Na ₂ SO ₄)
27	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 (Part 3)
28	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 (Part 3)



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29	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Common Burnt Clay Bricks	Dimension - Height	IS 1077
30	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Common Burnt Clay Bricks	Dimension - Length	IS 1077
31	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Common Burnt Clay Bricks	Dimension - Width	IS 1077
32	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates	Bulk Density (Compacted)	IS 2386 (Part 3)
33	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates	Bulk Density (Loose)	IS 2386 (Part 3)
34	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates	Clay Lumps	IS2386 (Part 2)
35	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates	Clay, Fine Silt and Fine Dust Content	IS 2386 (Part 2)



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36	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates	Coal & Lignite	IS2386 (Part 2)
37	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates	Materials Finer than 75 microns	IS 2386 (Part 1)
38	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates	Organic Impurities	IS 2386 (Part 2)
39	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates	Sieve Analysis (0.150 mm to 10 mm)	IS 2386 (Part 1)
40	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates	Soundness	IS 2386 (Part 5) (by MgSO ₄)
41	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates	Soundness	IS 2386 (Part 5) (by Na ₂ SO ₄)
42	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates	Specific Gravity	IS 2386 (Part 3)



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43	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (Part 3)
44	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fly Ash	Fineness	IS 1727 (by Blaine Air Permeability)
45	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fly Ash	Fineness	IS 1727 (by Wet Sieving 45 microns)
46	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fly Ash	Specific Gravity	IS 1727
47	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Granular Sub-Base	Aggregate Impact Value	IS 2386 (Part 4)
48	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Granular Sub-Base	Sieve Analysis (75 mm to 0.075 mm)	IS 2386 (Part 1)
49	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Granular Sub-Base	Water Absorption	IS 2386 (Part 3)



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50	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hardened Concrete (Core)	Compressive Strength	IS 516 (Part 4)
51	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hardened Concrete (Cube)	Compressive Strength	IS 516 (Part 1/ Sec 1)
52	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC/PPC/PSC/PCC)	Compressive Strength	IS 4031 (Part 6)
53	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC/PPC/PSC/PCC)	Density	IS 4031 (Part 11)
54	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC/PPC/PSC/PCC)	Final Setting Time	IS 4031 (Part 5)
55	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC/PPC/PSC/PCC)	Fineness	IS 4031 (Part 1) (by Dry Sieving)
56	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC/PPC/PSC/PCC)	Fineness	IS 4031 (Part 2) (by Blaine Apparatus)



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57	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC/PPC/PSC/PCC)	Initial Setting Time	IS 4031 (Part 5)
58	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC/PPC/PSC/PCC)	Normal Consistency	IS 4031 (Part 4)
59	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC/PPC/PSC/PCC)	Soundness	IS 4031 (Part 3) (by Le-Chatelier)
60	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hydraulic Cement (OPC/PPC/PSC/PCC)	Specific Gravity	ASTM C188
61	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Paver Blocks	Compressive Strength	IS 15658 (Annex D)
62	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Paver Blocks	Dimension - Length	IS 15658 (Annex B)
63	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Paver Blocks	Dimension - Thickness	IS 15658 (Annex B)



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64	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Paver Blocks	Dimension - Width	IS 15658 (Annex B)
65	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Paver Blocks	Water Absorption	IS 15658 (Annex C)
66	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Pulverized Fuel Ash Cement Bricks	Dimension - Height	IS 16720
67	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Pulverized Fuel Ash Cement Bricks	Dimension - Length	IS 16720
68	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Pulverized Fuel Ash Cement Bricks	Dimension - Width	IS 16720
69	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Pulverized Fuel Ash Lime Bricks	Dimension - Height	IS 12894
70	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Pulverized Fuel Ash Lime Bricks	Dimension - Length	IS 12894



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71	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Pulverized Fuel Ash Lime Bricks	Dimension - Width	IS 12894
72	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Wet Mix Macadam	Sieve Analysis (53 mm to 0.075 mm)	IS 2386 (Part 1)
73	MECHANICAL- SOIL AND ROCKS	Blanketing Material	California Bearing Ratio (CBR)	IS 2720 (Part 16)
74	MECHANICAL- SOIL AND ROCKS	Blanketing Material	Coefficient of Curvature (Cc)	IS 1498
75	MECHANICAL- SOIL AND ROCKS	Blanketing Material	Heavy Compaction Test - Maximum Dry Density	IS 2720 (Part 8)
76	MECHANICAL- SOIL AND ROCKS	Blanketing Material	Heavy Compaction Test - Optimum Moisture Content	IS 2720 (Part 8)
77	MECHANICAL- SOIL AND ROCKS	Blanketing Material	Uniformity Coefficient (Cu)	IS 1498
78	MECHANICAL- SOIL AND ROCKS	Clay & Soil (Coarse & Fine Grained)	California Bearing Ratio (CBR)	IS 2720 (Part 16)
79	MECHANICAL- SOIL AND ROCKS	Clay & Soil (Coarse & Fine Grained)	Free Swell Index	IS 2720 (Part 40)
80	MECHANICAL- SOIL AND ROCKS	Clay & Soil (Coarse & Fine Grained)	Heavy Compaction Test - Maximum Dry Density	IS 2720 (Part 8)
81	MECHANICAL- SOIL AND ROCKS	Clay & Soil (Coarse & Fine Grained)	Heavy Compaction Test - Optimum Moisture Content	IS 2720 (Part 8)
82	MECHANICAL- SOIL AND ROCKS	Clay & Soil (Coarse & Fine Grained)	Light Compaction Test - Maximum Dry Density	IS 2720 (Part 7)
83	MECHANICAL- SOIL AND ROCKS	Clay & Soil (Coarse & Fine Grained)	Light Compaction Test - Optimum Moisture Content	IS 2720 (Part 7)



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84	MECHANICAL- SOIL AND ROCKS	Clay & Soil (Coarse & Fine Grained)	Liquid Limit	IS 2720 (Part 5)
85	MECHANICAL- SOIL AND ROCKS	Clay & Soil (Coarse & Fine Grained)	Plastic Limit	IS 2720 (Part 5)
86	MECHANICAL- SOIL AND ROCKS	Clay & Soil (Coarse & Fine Grained)	Plasticity Index	IS 2720 (Part 5) & MORT&H - 5th Rev.
87	MECHANICAL- SOIL AND ROCKS	Clay & Soil (Coarse & Fine Grained)	Sieve Analysis (0.075 mm to 100 mm)	IS 2720 (Part 4)
88	MECHANICAL- SOIL AND ROCKS	Clay & Soil (Coarse & Fine Grained)	Specific Gravity	IS 2720 (Part 3/ Sec 1)
89	MECHANICAL- SOIL AND ROCKS	Clay & Soil (Coarse & Fine Grained)	Water Content	IS 2720 (Part 2)
90	MECHANICAL- SOIL AND ROCKS	Granular Sub-Base	California Bearing Ratio (CBR)	IS 2720 (Part 16)
91	MECHANICAL- SOIL AND ROCKS	Granular Sub-Base	Heavy Compaction Test - Maximum Dry Density	IS 2720 (Part 8)
92	MECHANICAL- SOIL AND ROCKS	Granular Sub-Base	Heavy Compaction Test - Optimum Moisture Content	IS 2720 (Part 8)
93	MECHANICAL- SOIL AND ROCKS	Granular Sub-Base	Liquid Limit	IS 2720 (Part 5)
94	MECHANICAL- SOIL AND ROCKS	Granular Sub-Base	Plastic Limit	IS 2720 (Part 5)
95	MECHANICAL- SOIL AND ROCKS	Granular Sub-Base	Plasticity Index	IS 2720 (Part 5) & MORT&H - 5th Rev.
96	MECHANICAL- SOIL AND ROCKS	Wet Mix Macadam	Heavy Compaction Test - Maximum Dry Density	IS 2720 (Part 8)
97	MECHANICAL- SOIL AND ROCKS	Wet Mix Macadam	Heavy Compaction Test - Optimum Moisture Content	IS 2720 (Part 8)
98	MECHANICAL- SOIL AND ROCKS	Wet Mix Macadam	Liquid Limit	IS 2720 (Part 5)
99	MECHANICAL- SOIL AND ROCKS	Wet Mix Macadam	Plastic Limit	IS 2720 (Part 5)



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100	MECHANICAL- SOIL AND ROCKS	Wet Mix Macadam	Plasticity Index	IS 2720 (Part 5) & MORT&H - 5th Rev