National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ALLUMERA ENGINEERING SOLUTIONS PVT. LTD., KHASARA NO. 61,MATIALA VILLAGE, UTTAM NAGAR, NEW DELHI, DELHI, INDIA

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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	Admixture	Ash content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride Content	IS 6925
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Coarse & fine aggregate	Chloride	IS:14959(pt-2)
6	CHEMICAL- BUILDING MATERIAL	Fly Ash	Combined Alumina Oxide and Iron Oxide	IS 1727
7	CHEMICAL- BUILDING MATERIAL	Fly Ash	loss on Ignition	IS 1727
8	CHEMICAL- BUILDING MATERIAL	Fly Ash	Silica content (as SiO2)	IS 1727
9	CHEMICAL- BUILDING MATERIAL	Fly Ash	Sulphuric Anhydride (as SO3)	IS 1727
10	CHEMICAL- BUILDING MATERIAL	Fly/pond ash	Magnesium oxide(MgO)	IS:1727
11	CHEMICAL- BUILDING MATERIAL	OPC / PPC	Alumina (as Al2O3)	IS 4032
12	CHEMICAL- BUILDING MATERIAL	OPC / PPC	Calcium Oxide (as CaO)	IS 4032
13	CHEMICAL- BUILDING MATERIAL	OPC / PPC	Combined Alumina Oxide and Iron Oxide	IS 4032
14	CHEMICAL- BUILDING MATERIAL	OPC / PPC	Ferric Oxide (as Fe2O3)	IS 4032
15	CHEMICAL- BUILDING MATERIAL	OPC / PPC	Insoluble Residue	4032
16	CHEMICAL- BUILDING MATERIAL	OPC / PPC	LOSS ON IGNITION	IS 4032
17	CHEMICAL- BUILDING MATERIAL	OPC / PPC	Silica Content (as SiO2)	IS 4032
18	CHEMICAL- BUILDING MATERIAL	OPC / PPC	Sulphuric Anhydride (as SO3)	IS 4032

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19	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Anodised metallic material	Mass of anodic coating	IS:5523
20	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Galvanised Item	Mass of Zinc Coating	IS 6745
21	CHEMICAL- METALS & ALLOYS	Metal & Alloys	Nickel	IS:228(pt-5)
22	CHEMICAL- METALS & ALLOYS	metals & Alloys	Chromium	IS:228(pt-6)
23	CHEMICAL- METALS & ALLOYS	Plain carbon steel / low alloy steel	Manganese	IS 228 P2
24	CHEMICAL- METALS & ALLOYS	Plain carbon steel / low Alloy Steel	Phosphorous	IS 228 P3
25	CHEMICAL- METALS & ALLOYS	Plain carbon steel / low Alloy steel	Silicon	IS 228
26	CHEMICAL- METALS & ALLOYS	Plain carbon steel/ low alloy steel	Carbon	IS 228 P1
27	CHEMICAL- METALS & ALLOYS	Plain carbon steel/ low alloy steel	sulphur	IS 228 P9
28	CHEMICAL- WATER	Construction Water	Chloride content	IS 3025 (Part 32)
29	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (Part 18)
30	CHEMICAL- WATER	Construction Water	Organic Solids	IS 3025 (Part 18)
31	CHEMICAL- WATER	Construction Water	Sulphate content	IS 3025 (Part 24)
32	CHEMICAL- WATER	Construction Water	Suspendend Matter	IS 3025 (Part 17)
33	CHEMICAL- WATER	Construction Water	Volume of 0.02 Normal H2So4 required to Neutralize 100 ml of sample (Alkalinity)	IS 3025 (Part 23)
34	CHEMICAL- WATER	Construction Water	Volume of 0.02 Normal NaoH required to Neutralize 100 ml of sample (Acidity)	IS 3025 (Part 22)
35	CHEMICAL- WATER	Drinking Water	acidity	IS:3025(pt-22)
36	CHEMICAL- WATER	Drinking Water	calcium	Is:3025(pt-40)
37	CHEMICAL- WATER	Drinking Water	Carbonate & Bi carbonate	IS:3025(pt-51)
38	CHEMICAL- WATER	Drinking Water	Chloride	IS:3025(pt-32)
39	CHEMICAL- WATER	Drinking Water	Filterable Residue(TDS)	IS-3025(pt-16)

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40	CHEMICAL- WATER	Drinking Water	Magnesium	IS:3025-(pt-46)
41	CHEMICAL- WATER	Drinking Water	Non filterable residuel(tss)	IS:3025(pt-17)
42	CHEMICAL- WATER	Drinking Water	odour	IS:3025(pt-5)
43	CHEMICAL- WATER	Drinking Water	oil & grease	IS:3025(pt-39)
44	CHEMICAL- WATER	Drinking Water	pH value	IS:3025(pt-11)
45	CHEMICAL- WATER	Drinking Water	Sulphate	Is:3025(pt-24)
46	CHEMICAL- WATER	Drinking Water	taste	IS:3025(pt 7)
47	CHEMICAL- WATER	Drinking Water	taste	IS:3025(pt-8)
48	CHEMICAL- WATER	Drinking Water	Total alkalinity	IS:3025(pt-23)
49	CHEMICAL- WATER	Drinking Water	total hardness	IS:3025(pt-21)
50	CHEMICAL- WATER	Drinking Water	Volatile & Fixed solids	IS:3025(pt-18)
51	CHEMICAL- WATER	Water for construction purpose	pH value	IS:3025(pt-11)
52	MECHANICAL- BUILDINGS MATERIALS	admixture	pH	IS:9103
53	MECHANICAL- BUILDINGS MATERIALS	Bitumen & allied material	Solubility in trichloroethylene	IS:1216
54	MECHANICAL- BUILDINGS MATERIALS	Bitumen & Bitumen mix	Bitumen content	ASTM D 2172-01:.
55	MECHANICAL- BUILDINGS MATERIALS	Bitumen & bitumen mix	Flash/fire point	IS:1209
56	MECHANICAL- BUILDINGS MATERIALS	bitumen & bitumen mix	loss on heating	IS:1212
57	MECHANICAL- BUILDINGS MATERIALS	bitumen & bitumen mix	Penetration (1/10th mm)	IS:1203
58	MECHANICAL- BUILDINGS MATERIALS	Bitumen & Bitumen mix	Softening point	IS:1205
59	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix Materal	Density	ASTM D-2726
60	MECHANICAL- BUILDINGS MATERIALS	Bitumen mix material	gradation	IS:2386(pt-1)
61	MECHANICAL- BUILDINGS MATERIALS	Building Bricks (BurntClay brick, Flyash brick,Fly ash lime brick,Sewer brick,Acid resistantant brick))	Compressive Strength	IS 3495 (Part-1)
62	MECHANICAL- BUILDINGS MATERIALS	Building Bricks (BurntClay brick, Flyash brick,Fly ash lime brick,Sewer brick,Acid resistantant brick))	Dimension	IS 1077

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63	MECHANICAL- BUILDINGS MATERIALS	Building Bricks (BurntClay brick, Flyash brick,Fly ash lime brick,Sewer brick,Acid resistantant brick))	Efflorescence	IS 3495 (Part -3)
64	MECHANICAL- BUILDINGS MATERIALS	Building Bricks (BurntClay brick, Flyash brick,Fly ash lime brick,Sewer brick,Acid resistantant brick))	Water absorption	IS 3495 (Part 2)
65	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete	Compressive Strength	IS 516
66	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete	Slump Test	IS 1199
67	MECHANICAL- BUILDINGS MATERIALS	ceramic tile	resistance to staining & household chemicals	IS:13630Pt-7&8)
68	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Length and Breadth	IS 13630(Part 1)
69	MECHANICAL- BUILDINGS MATERIALS	Ceramic tiles	scratch hardness of surface	IS:13630(pt-13)
70	MECHANICAL- BUILDINGS MATERIALS	Ceramic tiles	Water absorption and Bulk Density	IS 13630 (Part 2)
71	MECHANICAL- BUILDINGS MATERIALS	CeramicTiles	Modulus of rupture and breaking Strength	IS 13630 (Part 6)
72	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Flatness of tile surface	IS 13801(Annexure-B)
73	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Length and Breadth	IS 13801
74	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Perpendicularity	IS 13801(Annexure-C)
75	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Straightness	IS 13801(Annexure-D)
76	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Water Absorption	IS 13801(Annexure-E)
77	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Wet Transverse Strength	IS 13801(Annexure-F)
78	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386(pt-4)
79	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate crushing value	IS 2386(pt-4)
80	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate impact value	IS 2386(pt-4)
81	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Coal & Lignite	IS 2386(pt-2)

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82	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious material,Clay and Lumps	IS 2386(pt-2)
83	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386(pt-1)
84	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness index	IS 2386(pt-1)
85	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Gradation	IS:2386(pt-1)
86	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion	IS 2386(pt-4)
87	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Material finer than 75 micron	IS 2386(pt-1)
88	MECHANICAL- BUILDINGS MATERIALS	coarse aggregate	soft particle	IS:2386(pt-2)
89	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness test	IS 2386(pt-5)
90	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386(pt-3)
91	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Stripping value	IS:6241
92	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386(pt-3)
93	MECHANICAL- BUILDINGS MATERIALS	Coarse/Fine aggregate	Bulk Density	IS:2386(pt-3)
94	MECHANICAL- BUILDINGS MATERIALS	Coarse/Fine aggregate	Organic impurity	IS:2386(pt-2)
95	MECHANICAL- BUILDINGS MATERIALS	Coarse/Fine aggregate	Shale	IS:2386(pt-2)
96	MECHANICAL- BUILDINGS MATERIALS	Coarse/Fine aggregate	Silt content	CPWD (vol-1)
97	MECHANICAL- BUILDINGS MATERIALS	Coarse/Fine aggregate	surface moisture	CPWD (vol-1)cl.4.1.1.5 appedix-B
98	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Compressive Strength	IS 516
99	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Compressive Strength	IS 516
100	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Slump Test	IS 1199

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101	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Slump Test	IS 1199(P-1)
102	MECHANICAL- BUILDINGS MATERIALS	concrete beam	Flexural Strength	IS:516
103	MECHANICAL- BUILDINGS MATERIALS	concrete cube,core,beam	Compressive srength	IS 516(pt-4)
104	MECHANICAL- BUILDINGS MATERIALS	Concrete fresh & hardened	Test for Bleeding	IS:9103
105	MECHANICAL- BUILDINGS MATERIALS	concrete mix	flow	IS:1199(P-2)
106	MECHANICAL- BUILDINGS MATERIALS	concrete/finish road structure	Road roughness Index	IRC-SP-16
107	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking	IS:2386(pt-3)
108	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Coal & Lignite	IS 2386(pt-2)
109	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	deleterious material, clay, lump	IS:2386(pt-2)
110	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Finess Modulus	CPWD (vol-1)
111	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Gradation	IS 2386(pt-1)
112	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material finer than 75 micron	IS 2386(pt-1)
113	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt & Clay	IS 2386(pt-2)
114	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	soundness	IS 2386(pt-5)
115	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386(pt-3)
116	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386(pt-3)
117	MECHANICAL- BUILDINGS MATERIALS	Fly /pond ash	specific gravity	IS :1727
118	MECHANICAL- BUILDINGS MATERIALS	fly/pond ash	fineness	IS:1727
119	MECHANICAL- BUILDINGS MATERIALS	fly/pond ash/micro silica	compressive strength	IS:1727

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120	MECHANICAL- BUILDINGS MATERIALS	fly/pond ash/microsilica	45 micron wet sieving	IS:15388
121	MECHANICAL- BUILDINGS MATERIALS	Flyash/pond ash	Soundness autoclave expansion	IS:1727
122	MECHANICAL- BUILDINGS MATERIALS	Granite	Compressive Strength	IS 1121 (Part 1)
123	MECHANICAL- BUILDINGS MATERIALS	Granite	Dry Density	IS 13030
124	MECHANICAL- BUILDINGS MATERIALS	Granite	Moisture Content	IS 13030
125	MECHANICAL- BUILDINGS MATERIALS	Granite	Porosity	IS1124
126	MECHANICAL- BUILDINGS MATERIALS	Granite	Specific Gravity	IS 1122
127	MECHANICAL- BUILDINGS MATERIALS	Granite	water absorption	IS 1124
128	MECHANICAL- BUILDINGS MATERIALS	Marble Stone	water absorption	IS 1124
129	MECHANICAL- BUILDINGS MATERIALS	Marble Stone	Specific Gravity	IS 1122
130	MECHANICAL- BUILDINGS MATERIALS	OPC PPC	Final Setting time	IS 4031(pt-5)
131	MECHANICAL- BUILDINGS MATERIALS	OPC PPC	Fineness	IS 4031`
132	MECHANICAL- BUILDINGS MATERIALS	OPC PPC	Initial setting time	IS 4031(pt-5)
133	MECHANICAL- BUILDINGS MATERIALS	OPC PPC	Soundness by Le Chatelier's Method	4031
134	MECHANICAL- BUILDINGS MATERIALS	OPC, PPC	Compressive Strength	IS 4031
135	MECHANICAL- BUILDINGS MATERIALS	OPC, PPC	Soundness by auto clave	IS 4031
136	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	consistency	IS:4031(pt-4)
137	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	specific gravity	IS:4031(pt-11)
138	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paver Block	Water absorption	IS 15658

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139	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paver Block	Compressive Strength	IS 15658(Annexure -D)
140	MECHANICAL- BUILDINGS MATERIALS	Steel Tube	Mass per meter	IS 1239(Part 1)
141	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ceramic tiles	Scratch hardness of Surface	IS 13630 (Part 13)
142	MECHANICAL- MECHANICAL PROPERTIES OF METALS	reinforce steel	Bend Test	IS:1599
143	MECHANICAL- MECHANICAL PROPERTIES OF METALS	reinforce steel	rebend test	IS:1786
144	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	% Elongation	IS 1608
145	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Nominal mass	IS 1786
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Tensile Strength	IS 1608
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield Stress	IS 1608
148	MECHANICAL- MECHANICAL PROPERTIES OF METALS	round bar	Bend test	IS:1599
149	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Tube	Flattening Test	IS 2328
150	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Tube	Ultimate Tensile Strength	IS 1608
151	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Tube	Yield Stress	IS 1608
152	MECHANICAL- SOIL AND ROCK	Bentonite	Density	IS:2911(pt-1)/sec-2
153	MECHANICAL- SOIL AND ROCK	Bentonite	Liquid limit	IS:2720(pt-5)

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154	MECHANICAL- SOIL AND ROCK	Bentonite	Moisture	IS 6186 (Appendix 2)
155	MECHANICAL- SOIL AND ROCK	Bentonite	Sand Content	IS 6186 (Appendix 9)
156	MECHANICAL- SOIL AND ROCK	Bentonite	Viscosity	ASTM D 6910
157	MECHANICAL- SOIL AND ROCK	Soil earthwork ,Sub grade ,sub base ,Non bitumenous ,GSB,WBM,WMM	Bulk density	IS:2720(pt-3)
158	MECHANICAL- SOIL AND ROCK	Soil earthwork ,Sub grade ,sub base ,Non bitumenous ,GSB,WBM,WMM	California bearing Ratio	IS 2720(Part 16)
159	MECHANICAL- SOIL AND ROCK	Soil earthwork ,Sub grade ,sub base ,Non bitumenous ,GSB,WBM,WMM	direct shear (cohesion intercept	IS:2720(pt-13)
160	MECHANICAL- SOIL AND ROCK	Soil earthwork ,Sub grade ,sub base ,Non bitumenous ,GSB,WBM,WMM	Direct Shear Test (angle Of internal friction)	IS:2720(pt-13)
161	MECHANICAL- SOIL AND ROCK	Soil earthwork ,Sub grade ,sub base ,Non bitumenous ,GSB,WBM,WMM	Field density by core cutting method	IS:2720(pt-29)
162	MECHANICAL- SOIL AND ROCK	Soil earthwork ,Sub grade ,sub base ,Non bitumenous ,GSB,WBM,WMM	Free Swell Index	IS 2720 (Part 40)
163	MECHANICAL- SOIL AND ROCK	Soil earthwork ,Sub grade ,sub base ,Non bitumenous ,GSB,WBM,WMM	Heavy Compaction (MDD)	IS 2720(Part 8)
164	MECHANICAL- SOIL AND ROCK	Soil earthwork ,Sub grade ,sub base ,Non bitumenous ,GSB,WBM,WMM	Heavy Compaction (Optimum moisture content)	IS 2720(Part 8)
165	MECHANICAL- SOIL AND ROCK	Soil earthwork ,Sub grade ,sub base ,Non bitumenous ,GSB,WBM,WMM	Liquid Limit	IS 2720
166	MECHANICAL- SOIL AND ROCK	Soil earthwork ,Sub grade ,sub base ,Non bitumenous ,GSB,WBM,WMM	Plastic Limit	IS 2720
167	MECHANICAL- SOIL AND ROCK	Soil earthwork ,Sub grade ,sub base ,Non bitumenous ,GSB,WBM,WMM	Sieve Analysis	IS 2720(pt-4)
168	MECHANICAL- SOIL AND ROCK	Soil earthwork ,Sub grade ,sub base ,Non bitumenous ,GSB,WBM,WMM	Specific Gravity	IS 2720(Part 3)/sec-2
169	MECHANICAL- WOOD AND WOOD PRODUCTS	wood	Moisture Content	IS 1708 (Part-1)
170	MECHANICAL- WOOD AND WOOD PRODUCTS	wood	Specific Gravity	IS 1708(Part -2)
171	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	concrete/reinfoced concrete	Rebound hammer test	IS 516 (Part-5/Sec-4)

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172	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	concrete/reinforced concrete	Ultrasonic pulse velocity test	IS:516(pt-5/sec-1)
173	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	conrete/reinfoced concrete	carbonation test	ISO:1920-12
174	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Good earth	Deflection measurement test(load test)	IS:1888
175	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	reinforced concrete	half cell potentialtest	ASTM C 876-91